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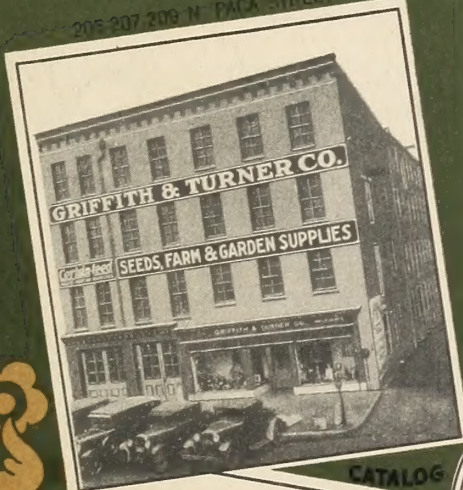
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1931

GRIFFITH & TURNER CO.

422 W. LEXINGTON STREET

205-207-209 N. PACA STREET



338 N. GAY STREET



CATALOG

No 44



210-212-214 JASPER STREET



MULBERRY ST. WAREHOUSE



213-215 N. PACA STREET

GENERAL OFFICES
205-215 N. PACA ST.

BRANCH HOUSE
338 N. GAY STREET

FARM AND GARDEN SUPPLIES

• BALTIMORE, MD. •

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

If for any reason you change your postoffice address, please advise us, giving your old address as well as your new one, stating which is the old and new one.

By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

PARCEL POST RATES

Weight in Pounds	Distance not over 150 miles	Over 150 and not over 300 miles	Over 300 and not over 600 miles	Over 600 and not over 1000 miles
1	\$.07	\$.08	\$.09	\$.10
2	\$.08	\$.10	\$.13	\$.16
3	\$.09	\$.12	\$.17	\$.22
4	\$.10	\$.14	\$.21	\$.28
5	\$.11	\$.16	\$.25	\$.34
6	\$.12	\$.18	\$.29	\$.40
7	\$.13	\$.20	\$.33	\$.46
8	\$.14	\$.22	\$.37	\$.52
9	\$.15	\$.24	\$.41	\$.58
10	\$.16	\$.26	\$.45	\$.64
11	\$.17	\$.28	\$.49	\$.70
12	\$.18	\$.30	\$.53	\$.76
13	\$.19	\$.32	\$.57	\$.82
14	\$.20	\$.34	\$.61	\$.88
15	\$.21	\$.36	\$.65	\$.94
16	\$.22	\$.38	\$.69	1.00
17	\$.23	\$.40	\$.73	1.06
18	\$.24	\$.42	\$.77	1.12
19	\$.25	\$.44	\$.81	1.18
20	\$.26	\$.46	\$.85	1.24
21	\$.27	\$.48	\$.89	1.30
22	\$.28	\$.50	\$.93	1.36
23	\$.29	\$.52	\$.97	1.42
24	\$.30	\$.54	1.01	1.48
25	\$.31	\$.56	1.05	1.54
26	\$.32	\$.58	1.09	1.60
27	\$.33	\$.60	1.13	1.66
28	\$.34	\$.62	1.17	1.72
29	\$.35	\$.64	1.21	1.78
30	\$.36	\$.66	1.25	1.84
31	\$.37	\$.68	1.29	1.90
32	\$.38	\$.70	1.33	1.96
33	\$.39	\$.72	1.37	2.02
34	\$.40	\$.74	1.41	2.08
35	\$.41	\$.76	1.45	2.14
36	\$.42	\$.78	1.49	2.20
37	\$.43	\$.80	1.53	2.26
38	\$.44	\$.82	1.57	2.32
39	\$.45	\$.84	1.61	2.38
40	\$.46	\$.86	1.65	2.44
41	\$.47	\$.88	1.69	2.50
42	\$.48	\$.90	1.73	2.56
43	\$.49	\$.92	1.77	2.62
44	\$.50	\$.94	1.81	2.68
45	\$.51	\$.96	1.85	2.74
46	\$.52	\$.98	1.89	2.80
47	\$.53	1.00	1.93	2.86
48	\$.54	1.02	1.97	2.92
49	\$.55	1.04	2.01	2.98
50	\$.56	1.06	2.05	3.04
51	\$.57	1.08		
52	\$.58	1.10		
53	\$.59	1.12		
54	\$.60	1.14		
55	\$.61	1.16		
56	\$.62	1.18		
57	\$.63	1.20		
58	\$.64	1.22		
59	\$.65	1.24		
60	\$.66	1.26		
61	\$.67	1.28		
62	\$.68	1.30		
63	\$.69	1.32		
64	\$.70	1.34		
65	\$.71	1.36		
66	\$.72	1.38		
67	\$.73	1.40		
68	\$.74	1.42		
69	\$.75	1.44		
70	\$.76	1.46		

INSECTICIDES

CANNOT

BE SENT BY

PARCEL

POST

TO COUNTRY MERCHANTS

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

Prospective Customers who are not rated in the Commercial Agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. **SEND FOR PRICES.**

Filling Orders.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags, 2 bushel, 40 cents each.

HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver by **PARCEL POST FREE** to any Postoffice in the United States all cash orders for Flower and Garden Seeds, up to ¼ lb.

No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Field Seeds in large quantities and All Merchandise, consult table below.

ON EVERY ORDER be sure to **SIGN YOUR NAME** and give your address **PLAINLY**, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners and all purchasers of Seeds in large quantities should submit us a list of their wants and we will name them special prices.

WEIGHT OF AGRICULTURAL SEED PER BUSHEL AND QUANTITY USUALLY

Weight per Bushel	Variety	Time to sow	Quantity per Acre
48 lbs.	Barley, Aug. to Nov.		75 lbs.
48 "	Broom Corn, in hills.		4 qts.
48 "	Buckwheat, June to Aug. 15.		1 bu.
80 "	Clover, Alfalfa, Mch., Apr. & Aug. to Oct. 15.		20 to 25 lbs.
60 "	Clover, Alsike, Feb., Mch. & Aug.		8 "
60 "	Clover, Crimson, July to Sept.		15 "
60 "	Clover, Sweet, Mch. & Apr., Aug. to Sept.		15 to 20 "
60 "	Clover, Japan, Mch. to May.		15 to 20 "
60 "	Clover, Red, Feb. & Mch.		10 to 12 "
60 "	Clover, White, Aug. & Sept., Mch. & Apr. (alone).		6 "
60 "	Clover, White, Aug. & Sept., Mch. & Apr. (with other grasses).		2 "
21 "	Crested Dog's Tail, Aug. & Sept., Mch. & Apr.		25 "
20 "	Creeping Bent, Aug. & Sept., Mch. & Apr.		50 "
56 "	Corn, for soiling, May.		1 to 2 bus.
24 "	English or Perennial Rye, Mch. & Apr., Aug. & Sept.		60 lbs.
20 "	Evergreen Lawn Grass, Mch. & Apr., Aug. & Sept.		3 to 4 bus.
56 "	Flax, for seed, Mch. & Apr.		1 bu.
56 "	Flax for fibre.		2 to 3 bus.
56 "	Field Corn (in hills), May.		4 to 6 qts.
50 "	German Millet, May to Aug. 1st.		50 to 75 lbs.
50 "	Hungarian Millet, May to Aug. 1st.		48 "
44 "	Hemp		22 "
20 "	Italian Rye Grass, Apr. & May, Aug. & Sept.		50 "
14 "	Kentucky Blue, Apr. & May, Aug. & Sept.		42 "
22 "	Meadow Fescue, Apr. & May, Aug. & Sept.		50 "
7 "	Meadow Foxtail, Apr. & May, Aug. & Sept.		30 "
14 "	Orchard Grass, Apr. & May, Aug. & Sept.		42 "
32 "	Oats, Spring, Mch. & Apr.		75 "
32 "	Oats, Winter, Mch., Aug., Sept., Oct.		50 to 75 "
14 "	Red Top, unhulled, Apr., May, Aug. & Sept.		42 "
32 "	Red Top, Fancy, Apr., May, Aug. & Sept.		12 "
60 "	Rape, Feb. to Aug.		4 to 6 "
60 "	Rye, Aug. to Nov.		60 to 80 "
12 "	Sheep Fescue, Apr., May, Aug. & Sept.		30 "
50 "	Sorghum (for Fodder), May & June.		50 "
50 "	Sorghum (in Drills), May & June.		50 "
40 "	Tall Meadow Oat Grass, Apr., May, Aug., Sept.		20 "
15 "	Timothy, alone, Apr., May, Aug., Sept.		20 "
15 "	Timothy, with other grasses.		8 "
	(Together for an acre: Red Clover, 6 lbs.; Timothy, 12 lbs.)		
60 "	Wheat, Sept. to Nov. 15.		100 to 120 "
40 "	Teosinte, May & June.		4 to 5 "
30 "	Vetch, Winter, Aug. to Nov. (broadcast).		30 "
30 "	Wood Meadow, Apr., May, Aug. & Sept.		30 "

"We give no warranty, expressed or implied, as to description, purity, productiveness or any other matter of any seeds, or bulbs, we sell, and we will not be in any way responsible for them."

Griffith & Turner Co.'s

ANNUAL

1931-CATALOGUE-1931

Best Goods

No. 44

Low Prices

STEPPING AHEAD

It gives us great pleasure to present to you our 1931 Catalog. For over seventy years we have been keeping step with the changing methods of doing business.

From a small beginning we have established an ever growing business, till now we have six warehouses with many acres of floor space, and three stores that are centrally located (See front cover page), all packed full of the latest merchandise, such things as you are constantly in need of. This places us in a position to give you the best possible service and prompt deliveries.

Your loyalty to us has made this possible, and we want to do everything to show our appreciation of the confidence you have placed in us.

It has always been a pleasure to serve you, and we pledge to you our utmost endeavor, that this confidence may long continue.

If you cannot secure the within goods from your local dealer, kindly write to us direct.

GRIFFITH & TURNER COMPANY.

SUGGESTIONS FOR THE FAMILY GARDEN

DRAW A DIAGRAM OF THE GARDEN. Locate the crops which take the most room (corn, potatoes, vines of the cucumber family), then locate the other crops, grouping them as follows: Peas, potatoes, beans; (asparagus, rhubarb, herbs); parsnips, turnips, salsify; beets, carrots, onions; cabbage, cauliflower; okra, tomatoes, eggplant, peppers; spinach, swiss chard, radish, salad plants. Vegetables should be planted in rows. Sow indoors or in Hotbed January 15: Foxglove, pansy, Iceland poppy.

ORDER SEEDS. QUANTITY OF SEED FOR A FAMILY OF EIGHT: Brussels sprouts, carrot, turnip, 1 oz.; onion, spinach, okra, 2 ozs.; cauliflower, eggplant, peppers, 2 pkgs.; cucumbers, 25 hills, 1 oz.; squash, 20 hills, 1 oz.; string beans, 2 qts.; lima beans, 1 qt.; peas, 4 qts.; corn, 3 pts. (3 plantings); lettuce, 1 oz. **BUY GARDEN TOOLS:** Wheelbarrow, roller, watering-can, sprayer, spade, fork, wheel hoe, common hoe, weeder, rake, scythe, sickle, trowel.

WHEN TO SOW: Early crops between March 15 and May 1. Main crops about May 5. Cover seeds twice or three times their thickness. Distances: Drills from 1 to 2 feet apart; corn, 3 feet; vines of the cucumber family, 4 feet; tomatoes, 3 feet.

SOW INDOORS MARCH 1 OR IN HOTBED: Cabbage, endive, eggplant, lettuce, peppers, tomato. **SOW INDOORS MARCH 1 OR IN HOTBED:** Sweet-alyssum, balsam, calendula, coreopsis, petunia, sweet-william, zinnia.

SOW OUT OF DOORS BETWEEN MARCH 15 AND APRIL 1: Beets, cabbage, carrots, kohlrabi, lettuce, onions, parsley, parsnips, radish, salsify, spinach, turnips, sweet-peas.

SOW OUT OF DOORS APRIL 15: Beets, cabbage, carrots, Swiss chard, celery, cornsalad, garden cress, endive, lettuce, okra, onion, parsley, parsnips, peas, radish, salsify, spinach, sage, thyme, turnip. **SOW OUT OF DOORS APRIL 15:** Sweet-alyssum, calendula, candytuft, corn-flowers, carnation, forget-me-not, larkspur, marigold, mignonette, Iceland poppy, snapdragon, sweet-william, zinnia. Set out roots of dahlias, cannas, gladiolas, elephant ears, tube roses and plants of hardy chrysanthemums.

SOW OUT OF DOORS MAY 15: Beets, beans, cabbage, carrots, cornsalad, chicory, cucumbers, endive, tomatoes, lettuce, lima beans, muskmelon, peas, peppers, potatoes, pumpkin, radish, sweet corn, Swiss chard, spinach, squash, sage, water-

melon. **SOW OUT OF DOORS MAY 15:** China aster, balsam, coreopsis, cosmos, foxglove, morning-glory, nasturtium, petunia, phlox, drummondii, sunflower. Vegetables and flowers should be transplanted from hotbed to garden about May 10. Flowering shrubs should be pruned immediately after they have blossomed. Fruit trees should be sprayed when the blossoms fall.

SOW EARLY IN JUNE: Beans, beets, cucumbers, lettuce, peas, radish, sweet corn. Ten week Stock, pansy. Roses should be grown on a southern exposure. The soil should be a rich loam. Set out ever-blooming roses the middle of April; Hybrid, Perpetual and Hardy Roses the middle of October. Rose bushes should be set 2 feet apart, sprayed in April and May, and pruned in March. The rose-bed should be well covered the last of November, and uncovered as soon as danger of frost is past.

FIRST WEEK IN JULY: Beans, carrots, lettuce, radish, sweet corn, turnips. **BORDEAUX MIXTURE** is excellent for all kinds of blight. **ARSENATE OF LEAD** will destroy insects that chew. **DIRECTIONS:** 2 to 3 pounds to 50 gallons of water. **LEMON OIL CO.'S STANDARD INSECTICIDE** WILL KILL PLANT LICE OF EVERY DESCRIPTION.

AUGUST 1, LAST PLANTING OF BEANS AND PEAS.

SET OUT BULBS EARLY IN FALL: Phlox (perennial), peonies. Plant spring-flowering bulbs: crocus, daffodils, lily of the valley, narcissus, snowdrops, tulips, hyacinths. Spring-flowering bulbs should be planted about 4 inches deep. Roman hyacinths, narcissus and crocuses can be grown in sand and water.

FERTILIZER for general use. Quantity, 500 lbs. to the acre, or 1 oz. to the square yard. Where a rich soil is required, 1,250 lbs. to the acre, or 4 ozs. to the square yard. In artificial fertilizers there are no weed seeds. **GENERAL HINTS:** BONE-MEAL AND SHEEP MANURE are excellent for lawn, garden, and orchard; LIME for heavy, damp soil. BONE-MEAL OR SHEEP MANURE AND NITRATE OF SODA in equal parts for asparagus. **IN THE FLOWER GARDEN** in the spring a handful of bone-meal or sheep manure may be worked into the soil about a plant with marked results. In midsummer, if flowers are few, rake in some nitrate of soda and a little bone-meal. **SHEEP MANURE** is a good fertilizer for roses.

PLANTING TABLE

The following table will give you the usual time to sow different varieties of seeds in the Baltimore section. Also, quantity per acre and distances to sow apart in rows. Of course, in Garden Culture a great many seeds could be planted closer together than mentioned, as this table is submitted for Field Culture. For other instructions, see catalog.

Variety	Time to Sow	Quantity Per Acre	Distance Apart in Rows	Distance Between Rows	No. Lbs. Per Bushel
Asparagus, seed.	Mar., Apr.	10 to 20 lbs.	4 in.	18 in.	60 lbs.
Asparagus, roots.	Feb., Mar., Oct.	8,000 roots.	12 in.	3½ ft.	
Beans, Dwarf Wax.	Apr. to Aug. 15.	60 lbs.	6 in.	2½ ft. to 3 ft.	60 lbs.
Beans, Dwarf G. P.					
Beans, Dwarf Lima.	May, June, July.	20 lbs.	18 in. to 2 ft.	3 ft.	60 lbs.
Beans, Pole Lima.	May, June.	15 lbs.	3 ft.	4 ft.	60 lbs.
Beans, Pole.					
Beets, Table.	Mar. to Aug.	4 to 6 lbs.	3 in.	2 ft.	
Beets, Mangold.	Apr., May, June.	4 to 6 lbs.	6 in.	2½ to 3 ft.	
Cabbage, Early.	Feb., Mar., Apr., Sept.	8 oz.			
Cabbage, Late.	May	6 oz.			
Cabbage Plants, Early.	Mar., Apr., Nov.	10,000	18 in.	3 ft.	
Cabbage Plants, Late.	July	8,000	2 to 3 ft.	3 to 3½ ft.	
Collards	Mar., Apr.	½ lb.	18 in.	3 ft.	
Cauliflower	Mar., Apr.				
Carrot	Mar. to June.	3 to 4 lbs.	3 to 4 in.	2 ft.	
Celery, Seed.	Feb., Mar.	3 lbs.	2 to 4 in.	1½ to 2 ft.	
Celery, Plants.	July	16,000	6 to 12 in.	4 ft.	
Corn, Sugar.	Apr. to July 4.	10 to 12 lbs.	12 to 18 in.	3 to 3½ ft.	44 lbs.
Corn, Field (drill).	Apr. to July 1.	12 to 14 lbs.	12 to 18 in.	3½ to 4½ ft.	56 lbs.
Corn, Field (checkered).	Apr. to July.	10 to 12 lbs.	3½ to 4 ft.	3½ to 4 ft.	56 lbs.
Cucumber	Apr. to June.	2 to 3 lbs.	2 ft.	4 to 5 ft.	40 lbs.
Eggplant, Seed.	Feb., Mar.	6 oz.			
Eggplants	May, June.	5,000	3 ft.	3 ft.	
Kale	Feb. to Mar.	8 to 10 lbs.	Broadcast	Broadcast	
Kale, Winter.	Aug.	4 to 6 lbs.	Broadcast	Broadcast	
Lettuce, Seed.	Feb. to May.	2 lbs.	Broadcast	Broadcast	
Lettuce, Plants.	Feb. to June and Aug.				
Muskmelon	to Nov.	20,000 to 25,000	8 to 12 in.	18 to 24 in.	
Melons, Water.	May, June.	2 lbs.	4 to 6 ft.	4 to 6 ft.	
Okra	Apr., May.	8 to 10 lbs.	8 to 10 in.	8 to 10 in.	
Onion Seed for Large Bulbs.	Mar., Apr.	4 to 5 lbs.	3 in.	15 to 24 in.	
Onion Seed for Sets.	Mar., Apr.	40 lbs.		12 to 18 in.	
Onion Sets.	Feb. to May and Sept. and Oct.	10 bus.	4 in.	18 to 24 in.	32 lbs.
Parsnip	Mar., Apr.	4 to 6 lbs.			
Parsley	Mar., Apr.				
Mustard	Mar., Apr.				
Peas, Garden, Smooth.	Feb. to May.	90 lbs.	2 in.	3 ft.	60 lbs.
Peas, Garden, Wrinkled.	Mar. to May.	90 lbs.	2 in.	3 ft.	56 lbs.
Pepper, Seed.	Feb., Mar.	8 oz.			
Pepper, Plants.	May, June.	10,000	18 in.	30 in.	
Potatoes, Irish, Early.	Mar., Apr.	11 bus.	15 to 18 in.	2½ to 3 ft.	60 lbs.
Potatoes, Irish, Late.	June to Aug. 1.	11 bus.	15 to 18 in.	2½ to 3 ft.	60 lbs.
Potato, Sweet, Plants.	May 10, June 15.	7,000 to 8,000	18 in.	3½ ft.	
Pumpkin	May, June.	2 lbs.	6 to 8 ft.	6 to 8 ft.	
Radish	Feb. to May and Aug. to Sept.	15 to 20 lbs.			
Salsify	Mar. to May 10.	6 to 8 lbs.	3 to 4 in.	2 ft.	
Spinach, (drills).	Feb., Mar., Apr. and Aug. to Nov.	15 to 18 lbs.	2 in.	9 in.	
Spinach, Broadcast.	Feb., Mar., Apr. and Aug. to Nov.	18 to 22 lbs.	Broadcast	Broadcast	
Squash	Apr., May, June.	3 lbs.	4 ft.	4 ft.	
Tomato, Seed.	Feb. to June.	6 oz.			
Tomato, Plants.	May to July.	3,000	3 to 4 ft.	4 ft.	
Turnip	July 1 to Sept. 15.	1 to 1½ lbs.	4 in.	2 ft.	
Turnip, (Broadcast).	July 1 to Sept. 15.	2 lbs.	Broadcast	Broadcast	

FURTHER SUGGESTIONS FOR THE FLOWER GARDEN

Sweet Peas can be Planted outdoors in March. Sow Outdoors in May where they are to remain.

Sweet Alyssum	Clarkia	Gaillardia	Marigold	Poppy
Calendula	Early Cosmos	Godekia	Nasturtium	Portulaca
Candytuft	Chinese Pink	Gourds	Petunia	Verbena
Bachelors Button	California Poppy	Larkspur	Phlox	Zinnia
Annual Chrysanthemum				

Sow indoors in March and transplant in May

Asters	Carnation	Dahlia	Petunia	Wallflower
Antirrhinum	Heliotrope	Pansy	Salvia	
Coreopsis	Gaillardia	Phlox	Pyrethrum	Sweet William
Chrysanthemum	Hollyhock	Oriental Poppy	Scabiosa	Wallflower
Delphinium	Myosotis			

For Hanging Baskets or Window Boxes

Alyssum	Nasturtium	Oxalis	Fuchsia	Geraniums
Begonia	Petunia	Tradescantia (Wandering Jew)	Thunbergia	
Lobelia	Pansy			
Balsam	Coreopsis	Lobelia	Forget-me-not	Begonia
Cowslip	Foxglove	Mimulus	Pansy	Bellis

Annals for Cutting

Selected for their long stems and good keeping qualities.

Antirrhinum	Calliopsis	Gaillardia	Scabiosa	Sweet Peas
Asters	Clarkia	Larkspur	Stocks	Zinnias
Candytuft	Cosmos	Marigold		

For the Children's Garden

Canary Bird Flower	Fancy Gourds	Balloon Vine	China Pinks	Morning Glory
Cockscomb	Foxglove	Snapdragon	Balsam or Lady's Slipper	

QUALITY SEEDS FOR THE CRITICAL GROWER



ASPARAGUS

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

MARY WASHINGTON ASPARAGUS.—Rust Resistant. This variety is the result of careful breeding by the U. S. Department of Agriculture, with the object of eliminating rust. A dark green color.

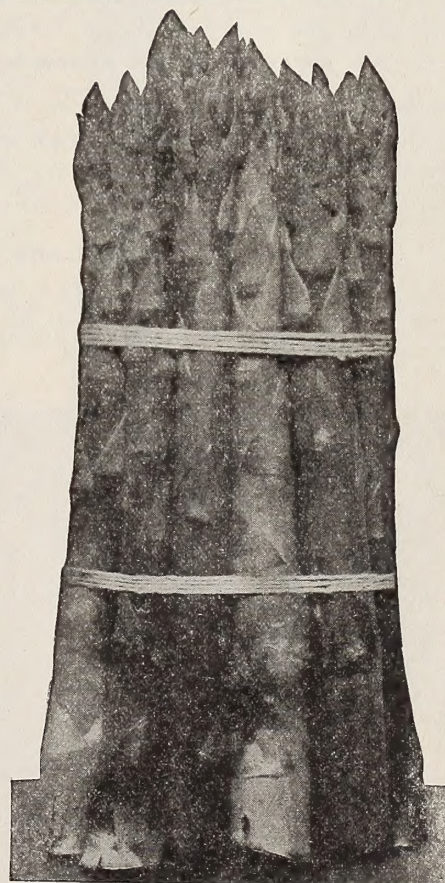
PALMETTO.—A very early maturing variety, producing an abundance of very large, deep green shoots.

BARR'S MAMMOTH.—The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color.

CONOVER'S COLOSSAL.—A mammoth green sort of the largest size and of good quality. One of the best known and most generally cultivated varieties.

ASPARAGUS ROOTS.—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 8,000 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants 15 inches apart. In field culture rows are placed four feet apart.

ASPARAGUS SEED	Pkt.	Oz.	¼ Lb.	Lb.	ASPARAGUS ROOTS (Postage Extra)	
					Per 100	Per 1000
MARY WASHINGTON	\$0.10	\$0.20	\$0.50	\$1.60	\$1.75	\$12.00
PALMETTO	.10	.15	.30	.75	1.25	9.50
BARR'S MAMMOTH	.10	.15	.30	.75	1.25	9.50
CONOVER'S COLOSSAL	.10	.15	.30	.75	1.25	9.50



BEANS

POLE OR RUNNING

These are of strong, running growth, and need stout poles on which to climb. They require a longer season in which to mature than do the bush varieties, but by reason of their stronger growth are more productive, and growing on poles are more easily gathered.

LAZY WIFE.—Large, pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to pole; enormously productive; splendid either as a snap or shell bean.

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length; nearly round when young, and very crisp.

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans.

BEANS—POLE OR RUNNING

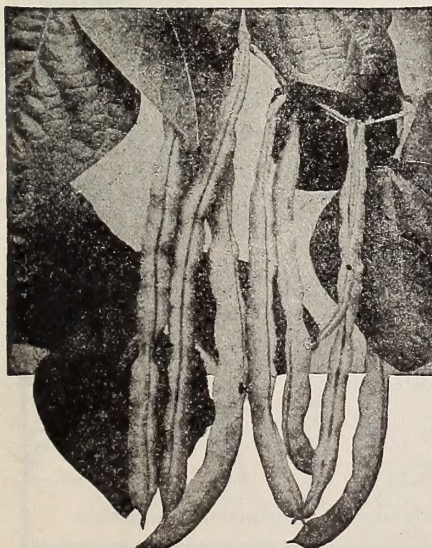
Beans by Weight	(about)	(1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
	1 lb.	2 lbs.	15 lbs.	60 lbs.	
LAZY WIFE	\$.25	\$.50	\$3.00	\$12.00	
KENTUCKY WONDER	.25	.40	2.75	10.00	
SPECKLED HORTICULTURAL POLE or WREN'S EGG	.25	.50	3.00	12.00	

KENTUCKY WONDER POLE BEANS

Add for postage, 8c. per lb., 10c. for 2 lbs.

Ask for prices by the bushel.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE



BEANS

Dwarf or Bush-Wax Podded

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

IMPROVED RUSTPROOF GOLDEN WAX

This is the handsomest and hardiest of all the Wax Beans. The Pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof and sure to become a favorite Wax Bean; in fact it has already gained great popularity with growers.

SURE CROP STRINGLESS WAX.—Recently introduced by the largest bean grower and originator of new varieties in this country. Entirely stringless, black-seeded, thick, flat yellow pods. The most desirable sort for canning.

DWARF PROLIFIC BLACK WAX

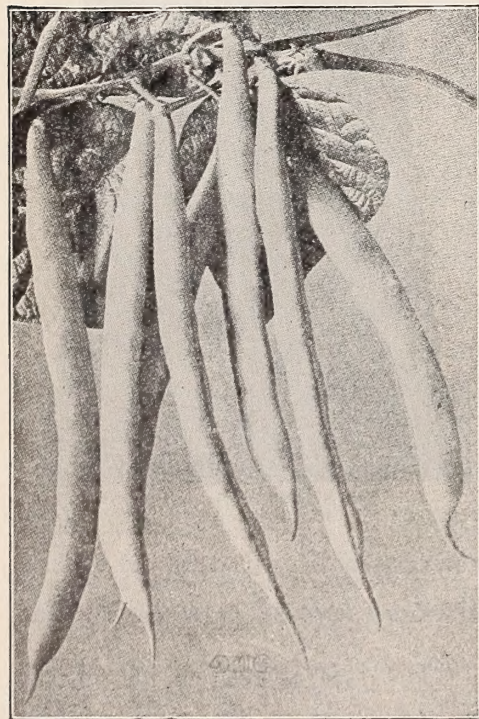
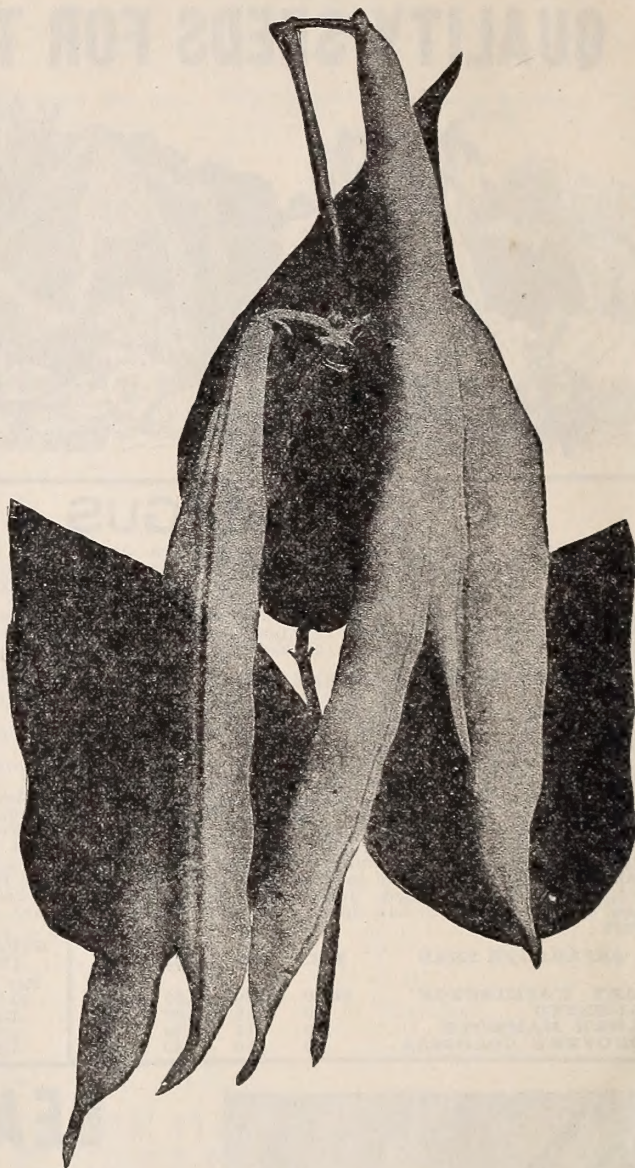
Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender.

WARDELL'S KIDNEY WAX BEAN

This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of an unusually fine quality.

CURRIE'S RUSTPROOF BLACK WAX

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequalled.



CURRIE'S RUSTPROOF GOLDEN WAX

NEW BALTIMORE STRINGLESS WAX

Black seeded, early; thick flat, yellow pod. No strings. Have appearance of Currie's Rustproof Wax, but are better cropper, and absence of strings make them much more desirable for canning and other uses.

NEW PENCIL POD WAX BEAN

Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties.

BEANS BY WEIGHT

1 pound equals about 1 pint 15 pounds equal about 1 peck
2 pounds equal about 1 quart 60 pounds equal about 1 bushel

WAX POD BUSH BEANS	(about) (1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
Beans by Weight	1 lb.	2 lbs.	15 lbs.	60 lbs.
IMPROVED RUSTPROOF GOLDEN WAX	.35	.60	\$3.75	
SURECROP STRINGLESS WAX	.30	.50	3.00	Ask
DWARF PROLIFIC BLACK WAX	.30	.70	3.00	for
WARDELL'S KIDNEY WAX	.30	.50	3.50	Prices
CURRIE'S RUSTPROOF BLACK WAX	.30	.50	3.00	per
NEW BALTIMORE STRINGLESS WAX	.35	.50	3.50	Bushel
NEW PENCIL POD WAX	.30	.50	3.00	

Add for postage, 8c. per lb., 10c. for 2 lbs.—Ask for prices in quantity.

Beans—Green—Podded Bush

The green podded dwarf sorts are perhaps the most important class of garden beans and are probably more extensively used for snaps than the wax podded varieties, although the latter are considered by many as the more attractive in appearance. The green podded sorts are as a rule the more productive, being less sensitive to unfavorable conditions of soil and climate and of late years have been less susceptible to bean diseases.

G. & T. CO.'S EXTRA EARLY RED VALENTINE (Specialty).—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean.

The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition.

BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor.

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier.

REFUGEE, or 1000 TO 1.

A medium to late variety, very productive and largely grown for pickling; handsome and tender pods.

GREEN-PODDED STRINGLESS REFUGEE

Medium-early, round-podded, green

**G. & T.'S IMPROVED
EXTRA EARLY RED
VALENTINE
BEANS.**

stringless; exceptionally good cropper. Fine for canning and table use. Newest thing in Green Pod Stringless Beans.

FULL MEASURE (New)—Large cropper; stringless, greenpodded, round Bean, not as early as Burpee's Stringless, but a heavy yielder. Best of quality.

BURPEE'S NEW STRINGLESS GREEN POD

One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

GIANT STRINGLESS GREEN POD

Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor.

LONG YELLOW SIX WEEKS

The plants of this hardy variety, large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps.

DWARF HORTICULTURAL (Cherry.)

Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state.

WHITE MARROWFAT.

Extensively grown for sale as a dry bean for winter use.

WHITE NAVY, or SMALL PEA BEAN.

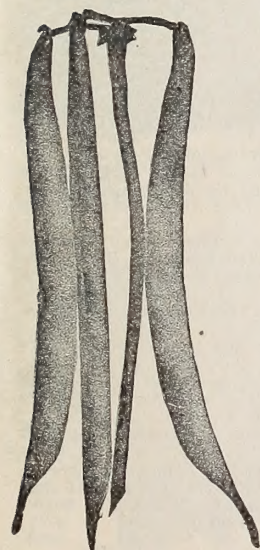
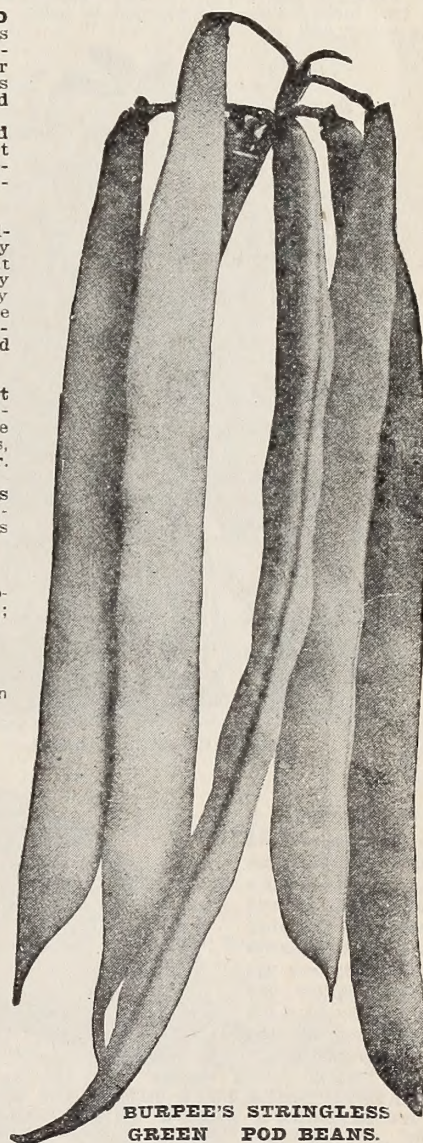
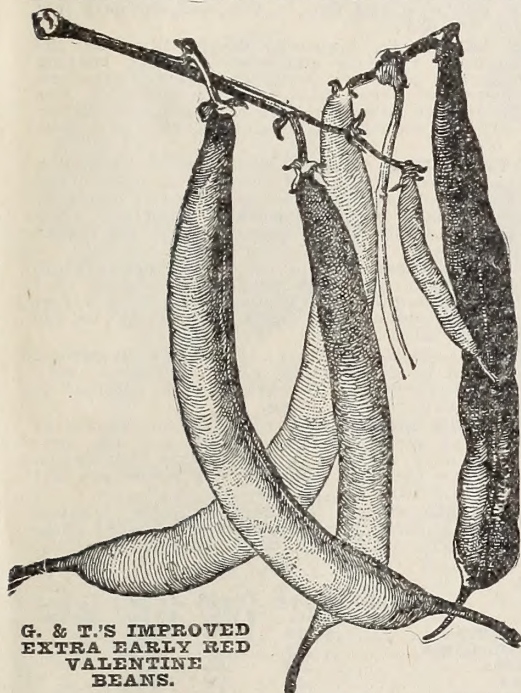
A well-known variety for field culture; very prolific.

BEANS—GREEN-PODDED BUSH

Beans by Weight	(about)	(1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
	1 lb.	2 lbs.	15 lbs.	60 lbs.	
G. & T. CO.'S EXTRA EARLY RED VALENTINE	30	50	3.00		
BLACK VALENTINE	30	50	3.00		
EXTRA EARLY BOUNTIFUL	30	50	3.00		
EXTRA EARLY REFUGEE	30	50	3.00		
REFUGEE OR THOUSAND TO ONE	30	50	3.00		
GREEN-PODDED STRINGLESS REFUGEE	30	50	3.00		
FULL MEASURE	30	50	3.00		
BURPEE'S NEW STRINGLESS GREEN-POD	30	50	3.00		
GIANT STRINGLESS GREEN-POD	30	50	3.00		
LONG YELLOW SIX WEEKS	30	50	3.00		
DWARF HORTICULTURAL	30	50	3.00		
WHITE MARROWFAT	30	50	3.00		
WHITE NAVY	30	50	3.00		

Add for postage, 8c. per lb., 10c. for 2 lbs.—Ask for prices in quantity.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



BUSH LIMA BEANS

Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half feet the other and plant four beans in a hill. Hoe often but only when the leaves are dry.



BURPEE'S BUSH LIMA

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class.

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white.

BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yield, each bush bearing 50 to 200 handsome, large pods, well filled.

DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

DREER'S WONDER BUSH LIMA.—Very desirable on account of earliness, productiveness; of strong, upright growth, and are completely covered with large pods, many of which contain four beans, which are fully as large as the Pole Limas. The beans are flat in shape and of excellent quality.

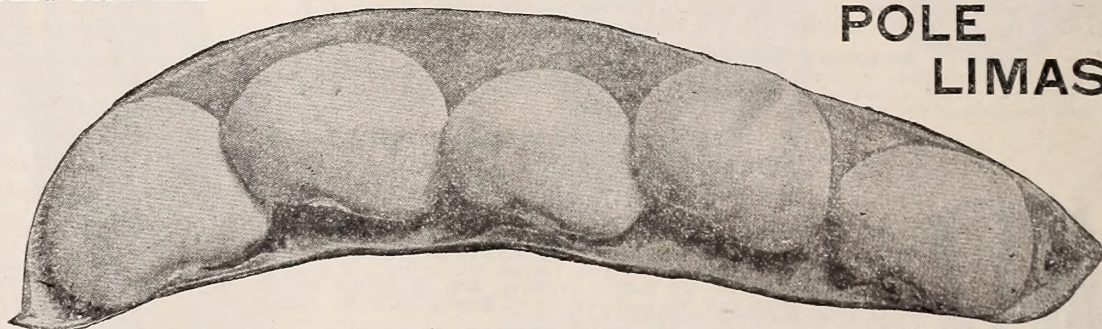
HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost.

BEANS, BUSH LIMA

	(about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.	(1 bu.) 60 lbs.
FORD HOOK BUSH LIMA.....	\$.40	\$.75	\$4.50		
BURPEE'S IMP. BUSH LIMA.....	.30	.60	4.25		
BURPEE'S BUSH LIMA.....	.30	.60	4.00		
DREER'S BUSH LIMA.....	.40	.75	4.50		
DREER'S WONDER BUSH.....	.30	.60	3.75		
HENDERSON'S BUSH.....	.30	.60	3.00		

Ask for prices in quantity. Add for postage, 8c. per lb., 10c. for 2 lbs.

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.



POLE LIMAS

CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans earlier than any other strain, but it is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod.

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod.

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality and is the favorite with most people.

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow.

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing.

CAROLINA OR SIEVA.—A seedling variety of large White Lima, with small pods, usually about 2 inches long. A little earlier and harder.

POLE LIMA BEANS	(about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
Beans by Weight				
CARPENTERIA.....	.30	\$.60	\$3.50	
HENDERSON'S LEVIATHAN.....	.30	.60	3.50	
KING OF THE GARDEN.....	.30	.60	3.50	
EXTRA LARGE LIMA.....	.30	.60	3.50	

Beans by Weight	(about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
EXTRA EARLY JERSEY.....	.30	\$.60	\$3.50	
DREER'S IMP. CHALLENGER.....	.30	.60	3.75	
CAROLINA OR SIEVA.....	.30	.60	3.00	

Ask for prices in quantity.

Add for postage, 8c. per lb., 10c. per 2 lbs.

B E E T S

One Ounce of Seed Will Sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



Crosby's
Improved Egyptian.

EGYPTIAN BEET.

CROSBY'S IMPROVED

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July.



Eclipse Beet.

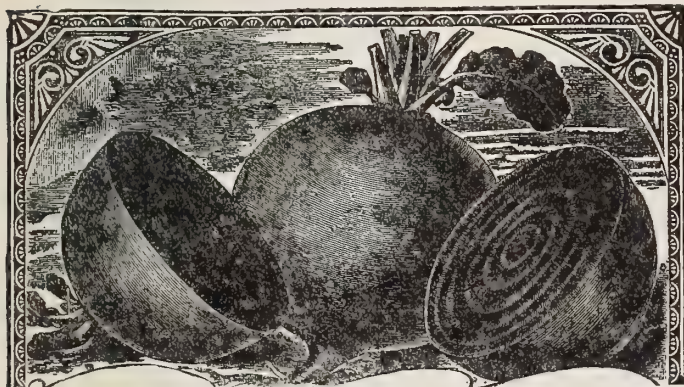
ECLIPSE BEET.

This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.



G. & T. CO'S EARLY BLOOD TURNIP BEETS.

This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early.



EARLY WONDER BEET

EARLY WONDER BEET

This grand new Beet, recently introduced, is early, Red with short tops, fine for bunching. Roots are of good, uniform size, slightly oval, and of deep blood red, has slim tap roots, fine grain, tender and sweet. Never gets stringy or woody. Fine for both home use and market garden.

EXTRA EARLY EGYPTIAN.

This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close.

SWISS CHARD

(Sea Kale or Spinach Beet.)

This kind of beet is grown exclusively for the numerous, fleshy, tender leaves and leaf



Swiss Chard

stalks which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked like asparagus or are pickled. This variety we offer has large, broad, undulated leaves, and remarkably broad stalks and mid-ribs or chards. It is well worthy of a place in the home garden as well as for market use.

Detroit Dark Red Turnip Beet



This is one of the finest formed and handsomest-colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety.

BEET	Pkt.	Oz.	1/4 Lb.	1 Lb.
CROSBY'S IMPROVED EGYPTIAN.....	.10	.15	.30	1.00
EARLY WONDER .....	.10	.15	.30	1.00
DETROIT DARK RED.....	.10	.15	.30	1.00
ECLIPSE .....	.10	.15	.30	1.00
EXTRA EARLY EGYPTIAN FLAT.....	.10	.15	.30	1.00
BLOOD TURNIP, G. & T. CO'S.....	.10	.15	.30	1.00
SWISS CHARD10	.15	.30	1.00

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Golden Tankard Mangold.



BORECOLE

MANGOLD WURZEL BEETS FOR STOCK

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills $2\frac{1}{2}$ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

LONG RED MANGOLD WURZEL.

The well-known, large, long variety, grows well out of ground. Color light red. Very productive.

GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer.

WHITE SUGAR BEET.

A large-growing sort, and used for feeding stock.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre.

BRUSSELS SPROUTS

1 Ounce of Seed to 100 Yards of Row.

Brussels Sprouts are used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.



BRUSSELS SPROUTS

BORECOLE

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled.

Seed should be sown in May and transplanted in July, in the open field and treated same as Savoy Cabbage.

BROCCOLI

1 Ounce of Seed to 100 Yards of Row.

The heads resemble somewhat a coarse cauliflower and the culture is the same as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

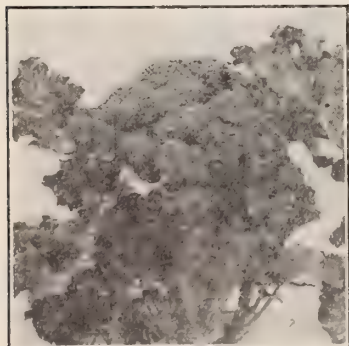
EARLY PURPLE CAPE.—Large, compact.

LARGE EARLY WHITE.—Head white, like cauliflower; the best.

BROCCOLI—Italian. Used largely in the Delaware, Maryland and Virginia Peninsula for northern shipment. Makes fine greens. Sow about August first for fall cutting. Pkt. 10c., Oz. 15c., $\frac{1}{4}$ lb. 45c., Lb. \$1.50.

BROCCOLI—Italian Calabrese. This variety produces heads on the order of Cauliflower and is the latest and newest kind yet introduced. See Cut.

Sow seed in open ground and get plants in field in July or August. After the center head is cut, it will produce side shoots with a smaller head. One of the best on account of the succulent Asparagus flavor. Pkt. 10c., Oz. 50c., $\frac{1}{4}$ lb. \$1.50, Lb. \$5.00.



BROCCOLI (Italian Calabrese)

MANGOLD WURZEL			
LONG RED	Pkt. .10	$\frac{1}{4}$ Lb. .20	1 Lb. .50
GOLDEN TANKARD	.10	.20	.50
WHITE SUGAR	.10	.20	.50
CHAMPION YELLOW INTERMEDIATE	.10	.20	.50
GATEPOST	.10	.20	.50
BRUSSELS SPROUTS			
	Pkt. .10	Oz. .25	$\frac{1}{4}$ Lb. .90
BORECOLE	.10	.20	1 Lb. 2.25
BROCCOLI, White Cape	.10	.50	
BROCCOLI, Purple Cape	.10	.50	

ABOVE PRICES ARE POSTAGE PAID

CABBAGE

One Ounce of Seed to 100 Feet of Row.

EARLY CABBAGES

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Plow deep and manure very liberally, as cabbage is a strong feeder, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart. The distance varying with the size. It does not pay to buy cheap cabbage seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hotbed in February or March, and transplant to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.



SELECT EARLY JERSEY WAKEFIELD

American Grown.

The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year.



PEDIGREE SELECTED EARLY JERSEY WAKEFIELD CABBAGE

We obtained this Pedigreed stock after careful selection and roguing to get an absolute true type, and now we offer it to our patrons for the first time.

There is nothing in the sharp-pointed Jersey Wakefield type Cabbage that equals it in quality. It matures about ten days earlier than the select Early Jersey Wakefield.

CHARLESTON, OR LARGE WAKEFIELD

American Grown.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows.



LARGE OR CHARLESTON WAKEFIELD

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Heads softer, but stands shipping better.

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort.

LARGE EARLY YORK.—(American Grown.)—One of the earliest. Forms a medium size, pointed head.

COPENHAGEN MARKET.—A new round head, solid cabbage, recently introduced from Denmark. It is without doubt the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed and the heads mature uniformly, which enables the crop to be harvested at one time, so that the ground can be cleared in two cuttings.

GOLDEN ACRE.—A new round extra early variety. Earlier than Jersey Wakefield.

CABBAGE	Pkt.	Oz.	¼ Lb.	1 Lb.
EARLY JERSEY WAKEFIELD.....	\$.10	\$.25	\$.75	\$2.25
PEDIGREE SELECT LARGE JERSEY WAKEFIELD .....	.10	.30	1.00	3.00
CHARLESTON WAKEFIELD.....	.10	.25	.75	2.25
EXTRA EARLY EXPRESS.....	.10	.30	1.00	3.00
EARLY WINNINGSTADT.....	.10	.25	.75	2.25
LARGE EARLY YORK.....	.10	.25	.75	2.25
COPENHAGEN MARKET.....	.10	.25	.75	2.50
GOLDEN ACRE.....	.10	.40	1.25	5.00

CABBAGE—CONTINUED



NEW EARLY—American Grown.

This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it.

SUCCESSION CABBAGE.—A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size; but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

EARLY SUMMER CABBAGE.—American grown. One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with truckers.

LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States.



ALL-HEAD EARLY CABBAGE

ALL HEAD EARLY

ALL-HEAD EARLY.—AMERICAN Grown, is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

EARLY DWARF FLAT DUTCH

American Grown

An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.



SUCCESSION CABBAGE

ALL SEASON—American Grown

This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

SUREHEAD—American Grown

This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

CABBAGE	Fkt.	Oz.	¼ Lb.	1 Lb.
ALL-HEAD EARLY	\$.10	\$.25	\$.75	\$2.25
EARLY DWARF FLAT DUTCH .....	.10	.25	.75	2.25
NEW EARLY .....	.10	.25	.75	2.25
SUCCESSION .....	.10	.25	.75	2.25
EARLY SUMMER .....	.10	.25	.75	2.25
LOUISVILLE DRUMHEAD .....	.10	.25	.75	2.25
ALL SEASONS .....	.10	.25	.75	2.25
SUREHEAD .....	.10	.25	.75	2.25

LATE OR AUTUMN CABBAGE



BOSS FLAT DUTCH—LATE CABBAGE

Premium Large Late Flat Dutch Cabbage

American Grown

Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.



DANISH BALL HEAD CABBAGE

Danish Ball Head

This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets.

Boss Flat Dutch Cabbage

In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we should say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "Splendid!" or "Elegant!" "Everything heads!" You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.



PREMIUM LARGE FLAT DUTCH—LATE CABBAGE

Large Late American Drumhead Cabbage

American Grown

One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Red Dutch Cabbage

The head is round, large, solid and a deep red color, the best of the red cabbages.

CABBAGE	Pkt.	Oz.	¼ Lb.	1 Lb.
BOSS FLAT DUTCH.....	\$.10	\$.20	\$.65	\$2.00
PREMIUM FLAT DUTCH.....	.10	.20	.65	2.00
DANISH BALLHEAD .....	.10	.25	.75	2.50
LATE AMERICAN DRUMHEAD.....	.10	.25	.75	2.50
RED DUTCH .....	.10	.25	1.00	3.00



DRUMHEAD SAVOY

LATE CABBAGES--CONTINUED

PERFECTION DRUMHEAD SAVOY

AMERICAN GROWN

This is without any exception the finest stock of Savoy Cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class.

GEORGIA COLLARDS

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLOWER



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect, snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass.

G. & T. CO.'S "DROUTH-RESISTING."—Produces large, white, solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

G. & T. CO.'S SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

CULTURE.—The same as for Cabbage, except that extra manure and plenty of water will pay upon cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay or straw it would keep the soil moist, and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.



CORN SALAD

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

CRESS, OR PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

WATER CRESS.—Water cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

LATE CABBAGE	Pkt.	Oz.	¼ Lb.	1 Lb.
PERFECTION DRUMHEAD SAVOY.	.10	\$.25	\$.75	\$2.25
COLLARDS.				
GEORGIA .....	.10	.15	.25	.75
CAULIFLOWER				
G. & T. CO.'S LARGE GILT				
EDGE SNOWBALL .....	.25	1.50	6.00	
EXTRA EARLY SNOWBALL .....	.25	1.50	5.00	

	Pkt.	Oz.	¼ Lb.	1 Lb.
G. & T. CO.'S DROUTH RESISTING.	.25	\$1.50	\$5.00	
G. & T. CO.'S SELECT				
EARLY DWARF ERFURT .....	.25	1.50	5.00	
CORN SALAD .....	.10	.15	.25	\$.75
CURLED CRESS .....	.10	.15	.25	.75
WATER CRESS .....	.10	.40	1.00	3.00

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

G. & T. CO.'S

CARROTS

1 OZ. OF SEED TO
100 FEET OF ROW

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



OXHEART OR GUERANDE.

Oxheart or Guerande

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 3½ inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock.

Pkt., 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00



CHANTENAY.

CHANTENAY

A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching.

Pkt., 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00

EARLY SCARLET HORN

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1½ inches thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching.

Pkt., 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00

HALF LONG DANVERS

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habits, a wonderful producer. It is a first-class Carrot for all soils.

Pkt., 10c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color.

Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00

SCARLET INTERMEDIATE

A fine handsome Carrot, in form midway between the Long Orange and Early Scarlet Horn. The roots are smooth and handsome, deep orange color, medium length tapering to a blunt point. The flesh is sweet, crisp and tender.

Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., \$1.00



DANVERS.



IMPROVED LONG ORANGE.

1 Oz. Will Produce 2,000 Plants.

CELERY

CELERY

Requires water, and lots of it, from the time the seed is sown in boxes in March until it is pulled in the autumn or winter. The seed is slow to germinate, and the soil where it is planted needs to be kept very wet.

Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.



GOLDEN PLUME CELERY

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery.



GOLDEN SELF-BLANCHING CELERY

WHITE PLUME

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickles, soups, etc.

GOLDEN PLUME OR WONDERFUL

Recently introduced. Much better than White Plume in appearance, crispness, and fine nutty flavor, though somewhat earlier, larger and ranker growth. Blanches quickly, with full heart and rich, golden yellow color.



WHITE PLUME

CELERY	Pkt.	Oz.	¼ Lb.	1 Lb.
GOLDEN PLUME OR WONDERFUL.....	\$.10	\$.50	\$ 1.50	
FRENCH GOLDEN SELF-BLANCHING.....	.10	.50	1.50	\$ 4.00
WHITE PLUME.....	.10	.25	.75	2.50
FLAVORING .....		.10	.15	.40



GIANT PASCAL CELERY

CELERY—Continued

Giant Pascal Celery

A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Easy Blanching

A second-early variety, maturing right after Golden Self-Blanching and resembling it in size and general characteristics of growth, but the foliage is a bright rich green. The stalks are thick and solid and of extra fine quality. They are unusually meaty, pure white, heavy, and crisp. A valuable variety for fall, winter, and early spring use. Easily blanched. It has quickly become a great favorite with many market growers.

Winter Queen Celery

It is without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.



EASY BLANCHING CELERY

CELERIAC **OR TURNIP ROOTED CELERY**

Large Smooth Prague

The largest, smoothest and best of the Celeriacs.

New Apple Shape

Small foliage, large, round and smooth.



LARGE SMOOTH PRAGUE CELERIAC

CELERY	Pkt.	Oz.	¼ Lb.	1 Lb.
GIANT PASCAL.....	\$.10	\$.20	\$.60	\$ 2.00
WINTER QUEEN.....	.10	.25	.50	1.75
EASY BLANCHING....	.10	.20	.60	2.00
CELERIAC	Pkt.	Oz.	¼ Lb.	1 Lb.
LARGE SMOOTH.....	\$.10	\$.25	\$.50	\$ 1.75
NEW APPLE SHAPE...	.10	.25	.50	1.75



WINTER QUEEN CELERY

CORN FOR TABLE USE

56 POUNDS PER BUSHEL

WHEN CORN IS WANTED BY MAIL, ADD 6 CENTS PER POUND TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.



Extra Early Neck

FIRST EARLY VARIETIES

Not a Sugar Corn, but are used for very early planting and will mature nice roasting ears before the sweet corn.



Extra Early Baltimore

FIRST EARLY NECK CORN.—By far the earliest roasting-ear corn we have. Can be planted in April without injury, as it is very hardy.

EXTRA EARLY BALTIMORE.—The hardiest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears.

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting.

EARLY ADAMS.—A favorite in the South.

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop.

SWEET OR SUGAR CORN

EXTRA EARLY VARIETIES. (Bushel Sweet Corn, 44 Lbs.)

DE LUE'S GOLDEN GIANT SUGAR CORN.—The stalks grow 4½ to 6 feet tall and very near the ground; about one-third are purple in stalk, leaf and husk. They carry two or three good ears, 7-9 inches long; cob of small diameter, with 12-20 rows of long, deep kernels of deep orange color. The husk is very heavy, affording the end protection from worm and bird.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground.



Comparative Size of Golden Bantam and New Golden Giant Sugar Corn.

WHIPPLE'S EARLY WHITE CORN.—Of remarkable size, considering its earliness. Ears, 8 inches long with 16 to 20 rows of rather narrow deep grains. Excellent quality, having rich, tender, well-filled ears. Very desirable for market gardeners.

CORY.—An early variety, red cob.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier.

WHITE CORY.—An early variety, with good-sized ears and large kernels.

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn.

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities.

HOWLING MOB.—Howling Mob is one of the best flavored and most tender of all second-early white sweet corns. Ears of Howling Mob measure from 7 to 9 inches in length and they are closely set with 12 or 14 rows of large, pearly-white grains.

Howling Mob is a strong-growing and sturdy variety, usually carrying two ears to a stalk. It is very productive and, without question, the earliest white sweet corn of really high quality. It is easily grown and yields a fine crop of handsome ears.

	(1 pt.) About 7/8 lb.	(1 qt.) 1 3/4 lbs.	(1 pk.) 14 lbs.
GARDEN CORN			
FIRST EARLY NECK		Crop Failed	
EXTRA EARLY BALTIMORE	.20	.35	\$2.00
EXTRA EARLY ADAMS	.20	.35	2.00
EARLY ADAMS	.20	.35	2.00
NINETY DAY RED COB		Crop Failed	
SWEET CORN	(1 pt.) About 3/4 lb.	(1 qt.) 1 3/8 lbs.	(1 pk.) 11 lbs.
DE LUES GOLDEN GIANT CORN	.20	.35	\$2.00

Ask for prices in quantity. Add for postage, 8c. per lb., 10c. for 2 lbs.

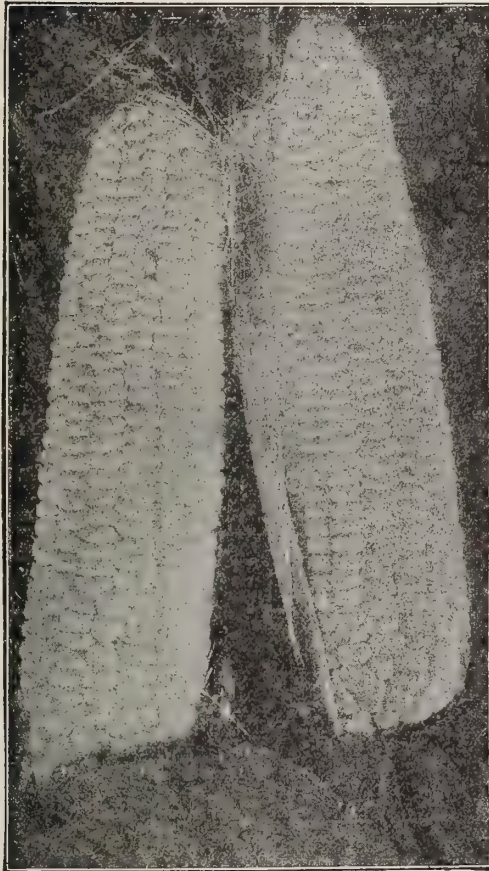
	(1 pt.) About 3/4 lb.	(1 qt.) 1 3/8 lbs.	(1 pk.) 11 lbs.
SWEET CORN			
NEW GOLDEN BANTAM CORN	.20	.35	\$2.00
WHIPPLE'S EARLY WHITE	.20	.40	2.00
HOWLING MOB	.20	.40	1.75
WHITE CORY	.20	.40	2.00
EARLY MINNESOTA	.20	.40	2.00
BLACK MEXICAN	.20	.40	2.00

SWEET OR SUGAR CORN FOR TABLE USE

CAUTION.—Sweet corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

BUSHEL SWEET CORN 44 POUNDS

MAIN CROP VARIETIES



TRUCKER'S EARLY CORN

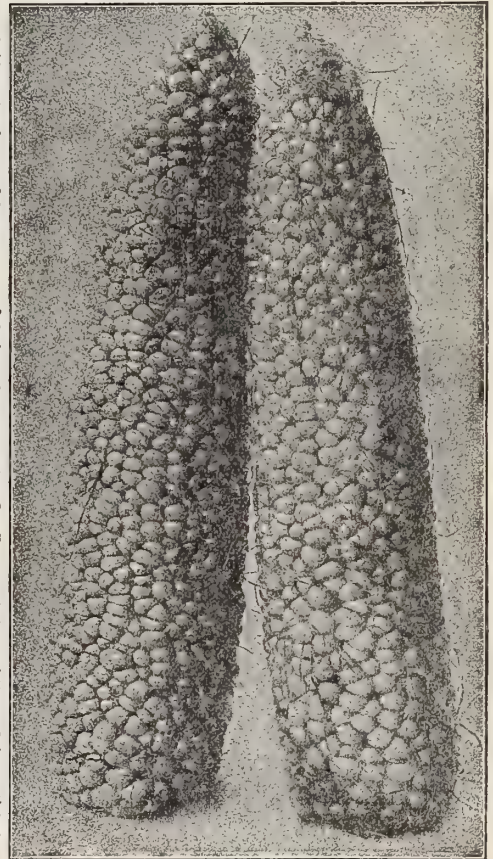
COUNTRY GENTLEMAN CORN.—This is the sweetest and most delicious flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best.

TRUCKER'S EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation.

LATE MAMMOTH.—The largest variety grown; very fine for market purposes.

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.

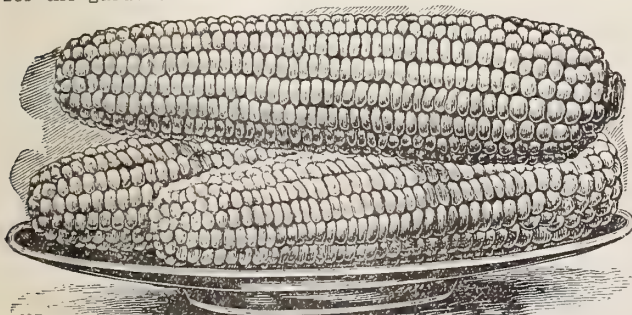


COUNTRY GENTLEMAN CORN

EARLY SHEFFIELD.—Plant as early as Adams. Makes strong, vigorous growth with abundant foliage, growing about 5 feet and bearing usually 2 ears of handsome appearance.

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end.

WHITE EVERGREEN.—Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner.



STOWELL'S EVERGREEN.
BUSHEL SWEET CORN CONSISTS OF 44 POUNDS.
ASK FOR PRICES IN QUANTITY.

	(1 pt.)	(1 qt.)	(1 pk.)
	About	¾ lb.	1 ½ lbs. 11 lbs.
SWEET CORN			
COUNTRY GENTLEMAN	\$.20	\$.40	\$2.75
STOWELL'S EVERGREEN .....	.20	.40	2.75
TRUCKER'S EARLY .....	.20	.40	2.75
LATE MAMMOTH .....	.20	.40	2.75
EARLY MAMMOTH .....	.20	.40	
WHITE EVERGREEN .....	.20	.40	2.75
EARLY SHEFFIELD .....	.20	.40	
ZIGZAG EVERGREEN .....	.20	.40	

Ask for prices in quantity. Add for postage, 8c. per pound
 10c. for 2 lbs.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

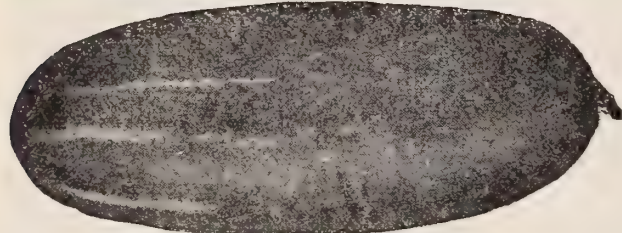
1 Oz. Will Plant 50 Hills.
2 Lbs. Will Plant an Acre.

CUCUMBER CULTURE

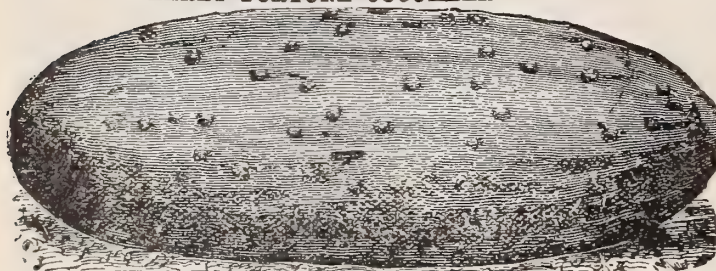
For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot plaster, or air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE



EARLY FORTUNE CUCUMBER



JERSEY PICKLING



IMPROVED LONG GREEN

IMPROVED BALTIMORE WHITE SPINE

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well.

EARLY FORTUNE CUCUMBER.—One of the earliest and best dark green White Spine Cucumbers. Extremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green, white spine cucumber it cannot help but please. Fine for Southern growers, as it stands shipping remarkably well.

JERSEY PICKLING.—This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

IMPROVED LONG GREEN

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should plant. The best known and most popular variety for general use. Is vigorous and productive, and forms fruit fit for use as early as the shorter varieties. The mature fruit is almost 12 inches long.

BURR, OR WEST INDIA GHERKIN.

An extremely small fruited variety, grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if pickled when young. Seed germinates slowly.

CUCUMBER	Pkt.	Oz.	¼ Lb.	1 Lb.
IMPROVED BALTIMORE WHITE SPINE..	\$.10	\$.15	\$.30	\$1.00
ARLINGTON WHITE SPINE.....	.10	.15	.30	1.00
EARLY FORTUNE .....	.10	.15	.30	1.00
JERSEY PICKLING10	.15	.30	.90
IMPROVED LONG GREEN.....	.10	.15	.40	1.25
BURR OR WEST INDIA GHERKIN.....	.10	.15	.40	1.25

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CUCUMBERS—CONTINUED



EARLY GREEN PROLIFIC

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and fine quality when sliced for the table.



EVER-BEARING CUCUMBER

EVER-BEARING CUCUMBER

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.



EARLY CLUSTER

A short prickly variety, bearing in clusters near the root. A good bearer.

JAPANESE CLIMBING CUCUMBER

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe.

TELEGRAPH (ENGLISH FORCING)

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night.

ENDIVE

Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED ENDIVE

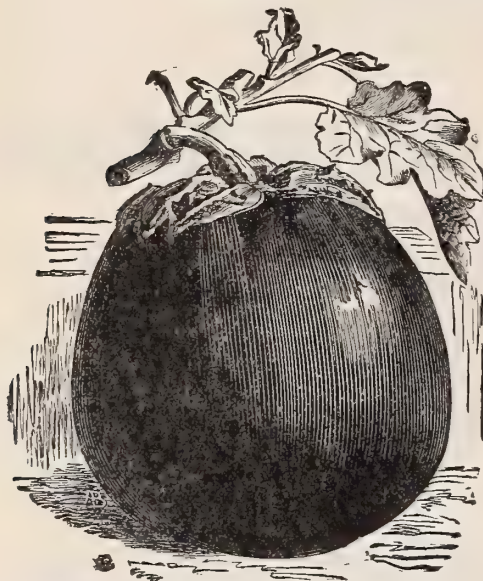
The best sort in use. Useful as a salad, and also used for garnishing.



GREEN CURLED ENDIVE

CUCUMBERS	Pkt.	Oz.	¼ Lb.	1 Lb.
EARLY GREEN PROLIFIC.....	\$.10	\$.15	\$.40	\$1.00
EVERBEARING .....	.10	.15	.40	.90
EARLY CLUSTER .....	.10	.15	.40	.90
JAPANESE CLIMBING .....	.10	.15	.40	.90
TELEGRAPH .....	.25			
ENDIVE	Pkt.	Oz.	¼ Lb.	1 Lb.
GREEN CURLED	\$.10	\$.15	\$.40	\$1.25

BALTIMORE



EGGPLANT

EGG PLANT

CULTURE.—Sow the seed in hot-beds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants will become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in a thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the early stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1,000 plants.

BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants and produces fruit quite as large as the **NEW YORK PURPLE** in 10 days less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost.

THE FLORIDA HIGH-BUSH EGG PLANT.—Is in great demand by Southern truckers. It has very vigorous growth and remarkably hardy. The plant grows very erect and holds the fruits clear of the ground.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable Egg Plant in cultivation. It is large thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.



EXTRA CURLED NEW AMERICAN KALE

KALE

One Ounce of Seed Will Sow a Drill of About 200 Feet.

The Kales are more hardy than cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

GRIFFITH & TURNER CO'S. NEW KALE.—Larger, More Curled and longer-standing than any other Kale. Packet, 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use.

EXTRA CURLED NEW AMERICAN KALE.—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

Norfolk.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.



KOHLRABI

**1 OZ. OF SEED TO 100 FEET
OF ROW**

Improved White Vienna

BULB LIGHT GREEN
FLESH WHITE
VERY RAPID IN GROWTH
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM
SUPERIOR.

LEEK

1 OZ. OF SEED TO 150 FEET OF ROW

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture.

LARGE ROUEN.—



EGG PLANT	Pkt.	Oz.	$\frac{1}{4}$ Lb.	1 Lb.
BLACK BEAUTY .....	.10	.40	\$1.00	\$3.75
NEW YORK IMPROVED .....	.10	.40	1.00	3.75
FLORIDA HIGH BUSH .....	.10	.40	1.00	3.75
BALTIMORE .....	.10	.40	1.00	3.75
KALE	Pkt.	Oz.	$\frac{1}{4}$ Lb.	1 Lb.
DWARF GREEN GERMAN .....	.10	.20	.50	.50
EXTRA CURLED NEW AMERICAN .....	.10	.20	.50	.50
NORFOLK .....	.10	.25	.75	.75

KOHL RABI	Pkt.	Oz.	$\frac{1}{4}$ Lb.	1 Lb.
WHITE VIENNA IMPROVED .....	.10	.20	.50	1.75
LEEK	Pkt.	Oz.	$\frac{1}{4}$ Lb.	1 Lb.
EXTRA LARGE MAMMOTH .....	.10	.20	.60	\$1.75
LARGE ROUEN .....	.10	.20	.60	1.75

ABOVE PRICES ARE POSTPAID

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

LETTUCE

Lettuce requires rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE

The Best Summer Lettuce Ever Introduced.—This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor.



W. S. SUMMER LETTUCE

G. & T. CO.'S SUMMER LETTUCE (Black Seed.)

This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid, large, solid, head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

IMPROVED NEW YORK, OR "WONDERFUL"

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanchd and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

MAY KING

A very early, new variety, forming fine, hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head.

We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed.

"ICEBERG" LETTUCE

The heads are large, crisp, solid and tender.

EARLY PRIZE HEAD (Seed White)

A large, clustering, non-heading lettuce, most excellent for the home and garden, and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

EARLY CURLED SIMPSON

Black seed. Very early; excellent for salads; forms a compact mass of leaves.

TENNIS BALL

Black seed. A favorite forcing variety; a very hard head.

ROMAINE OR WHITE PARIS COS

The best of the Cos or celery varieties. Forms a large, light green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France, while little known to our own people.



COS LETTUCE

LETTUCE	Pkt.	Oz.	¼ Lb.	1 lb.		Pkt.	Oz.	¼ Lb.	1 lb.
G. & T. CO.'S WHITE SEED SUMMER .....	.10	.20	.60	\$2.00	MAY KING .....	.10	.20	.50	\$1.25
G. & T. CO.'S BLACK SEED SUMMER .....	.10	.20	.60	2.00	ICEBERG .....	.10	.20	.60	2.00
IMPROVED NEW YORK OR WONDERFUL .....	.10	.20	.60	2.00	EARLY PRIZE HEAD .....	.10	.20	.50	1.25
					EARLY CURLED SIMPSON .....	.10	.20	.50	1.25
					TENNIS BALL .....	.10	.20	.50	1.25
					ROMAINE OR WHITE PARIS COS .....	.10	.20	.50	1.50

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

LETTUCE—Continued **BALTIMORE CABBAGE LETTUCE**

G & T CO.'S TRUE STOCK

Large Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best of all for

FALL PLANTING

This new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these in turn were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says, "I had 3,000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine."

LARGE LOAF LETTUCE

This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.



LARGE LOAF LETTUCE.



BIG BOSTON.



BALTIMORE CABBAGE LETTUCE.

BALTIMORE OAK LEAF

This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

HANSON

One of the most reliable sure-heading sorts. Makes a large globular head. Color, light green. Excellent quality. A fine variety for summer planting, as it stands hot weather better than most sorts.

BOSTON MARKET

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

GRAND RAPIDS

This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm that they have to be cut open to allow the flower heads to come through.

BIG BOSTON

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

LETTUCE	Pkt.	Oz.	¼ Lb.	1 Lb.
BALTIMORE CABBAGE.....	\$.10	\$.20	\$.60	\$2.00
LARGE LOAF LETTUCE.....	.10	.20	.40	1.25
BALTIMORE OAK LEAF.....	.10	.20	.40	1.25
HANSON .....	.10	.20	.40	1.25
BOSTON MARKET .....	.10	.20	.40	1.25
GRAND RAPIDS .....	.10	.20	.40	1.25
DEFIANCE .....	.10	.20	.50	1.50
SALAMANDER .....	.10	.20	.50	1.50
BIG BOSTON.....	.10	.20	.40	1.25

Muskmelon

**NEW
MARYLAND**



CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

NEW MARYLAND CANTALOUPE.—The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure moneymaker. Our truckers around Baltimore will have no other after planting our New Maryland. **Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**

Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor Wherever Grown.

The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places—in fact, it is a leading sort all over the country. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**

IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**



ROCKY FORD CANTALOUPE.



BALTIMORE NUTMEG.

EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**

OSAGE, OR MILLER'S CREAM.

Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**



EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates. **Pkt., 10c. Oz., 15c. ¼ lb., 30c. Lb., 90c.**

MUSKMELONS—Continued

Knight Cantaloupe



KNIGHT CANTALOUPE

This new Cantaloupe has been grown in Anne Arundel county for the past several years, and has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and saleable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. **Pkt., 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50**

BOTTOMLY.—A production of Anne Arundel County, Maryland. One of the newest and best Cantaloupes in existence. About a week later than the Knight. Fair size, excellent flavor, beautiful form and comprises all that is necessary for a good melon. **Pkt., 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50.**

PAUL ROSE.—In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., 90c.**

ANNE ARUNDEL CANTALOUPE

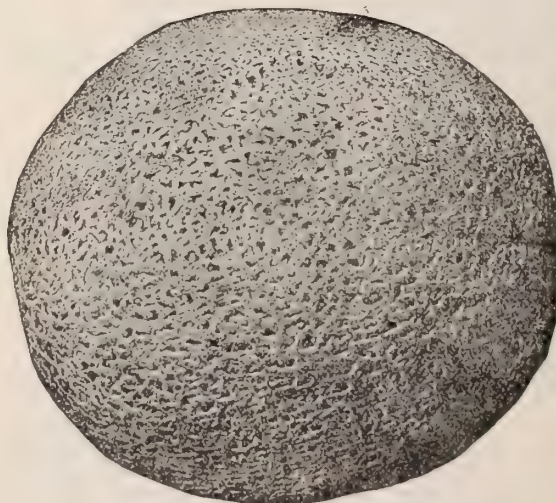
(Original Stock.)

This handsome melon introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel county, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. **Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., 90c.**

HONEY DEW MELON.—This new melon averages about 6½ inches in diameter. Smooth skin, rind thin and tough, good keeper and fine flavor. **Pkt., 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.50.**

EDEN GEM OR NETTED ROCK

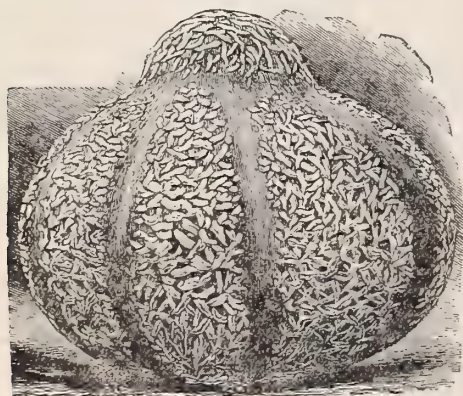
One of the handsomest melons in our list. Splendid shape and thorough netting and absence of deep spaces between the ribs, indicating strong shipping properties. The flesh is unusually thick, the seed cavity very small, the flavor exquisite. A heavy yielder, the melons very uniform, but few run too large, and still fewer too small. For shipping we recommend it highly; also for home growers. **Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., 90c.**



Netted Rock or Eden Gem Cantaloupe



PAUL ROSE



NORFOLK BUTTON

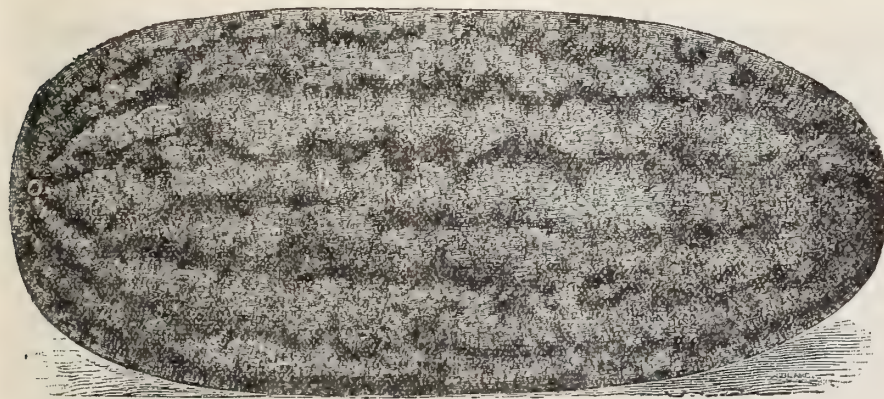
An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We have but a limited supply of seed. Those who wish to secure seed will do well by placing their order at once. **Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., 90c.**

EXTRA EARLY HACKENSACK

Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. **Pkt., 10c. Oz., 15c. ¼ Lb., 30c. Lb., 90c.**

LONG ISLAND BEAUTY.—**Pkt., 10c. Oz., 15c. ¼ Lb., 30c.**

WATERMELONS

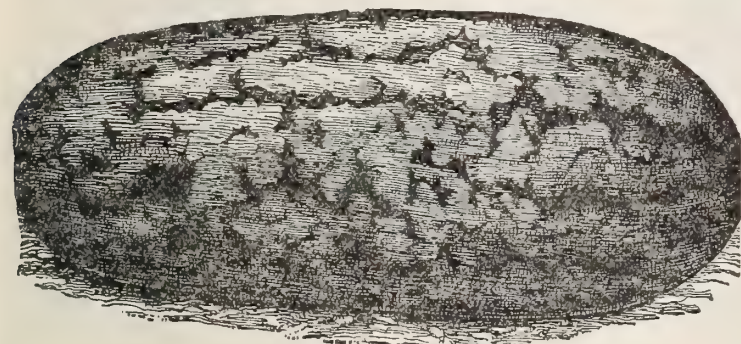


LORD BALTIMORE

CULTURE.—One ounce of seed to 30 hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.

LORD BALTIMORE

It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grow. It is a good shipper and beats all others as a seller.



FLORIDA FAVORITE

Florida Favorite

This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. The best of all for family gardens. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

McIVER'S SUGAR WATERMELON

In outward appearance it somewhat resembles the old Rattle-snake. The quality is much superior. It is an extremely productive and hardy variety.

INDIAN CHIEF WATERMELON

A large oblong dark green melon, with thick netting, the rind is thin but very tough. The flesh is a bright attractive red, and has a crisp delicious flavor. It is very productive, and is an excellent shipper.

STONE MOUNTAIN

A very large nearly round or "blocky" melon of high quality. Rind fairly tough, dark green; flesh sweet, rich scarlet, with few seeds; very prolific.

Dark Icing

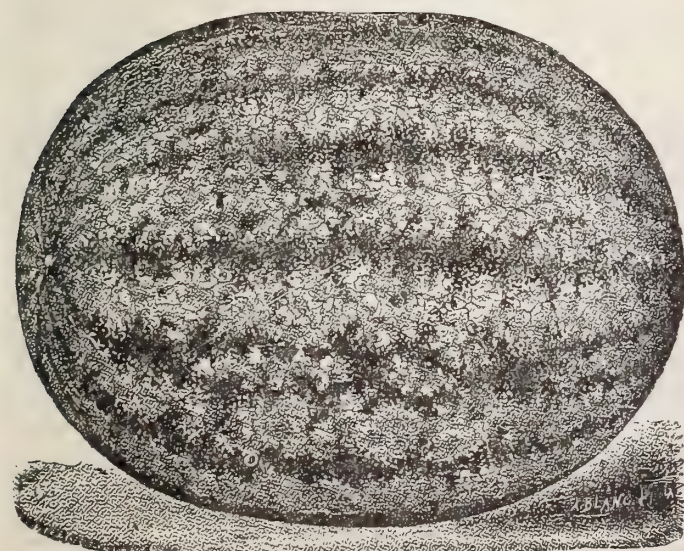
An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and sugary to the very thin rind.

GRAY MONARCH OR WHITE ICING

This distinct melon is without a doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet delicious flavor. It is also a fine shipper, carrying well long distance and bringing very high prices.

DUKE JONES WATERMELON

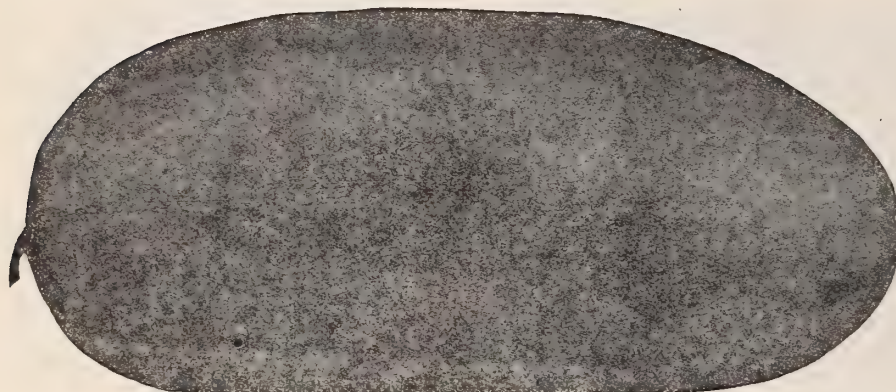
In shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct irregular stripes of light and dark green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing.



DUKE JONES

WATERMELON	Pkt.	Oz.	¼ Lb.	1 Lb.				
LORD BALTIMORE.....	\$.10	\$.15	\$.25	\$.90	STONE MOUNTAIN.....	.10	.15	.25 .75
FLORIDA FAVORITE.....	.10	.15	.25	.75	GRAY MONARCH OR LONG			
McIVER'S SUGAR.....	.10	.15	.25	.75	WHITE ICING.....	.10	.15	.25 .75
DARK ICING.....	.10	.15	.25	.75	DUKE JONES.....	.10	.15	.25 .75
					INDIAN CHIEF.....	.10	.15	.25 .75

WATERMELONS--Continued



NEW WATERMELON--THURMOND GRAY

It's sweet; the flesh is red, crisp and free from stringiness and the color of rind a mottled light gray-green, entirely distinct. Rind is thin, but very tough. Long-distance shipments go through perfectly. Plant Irish Gray for home or market use and you will be delighted.

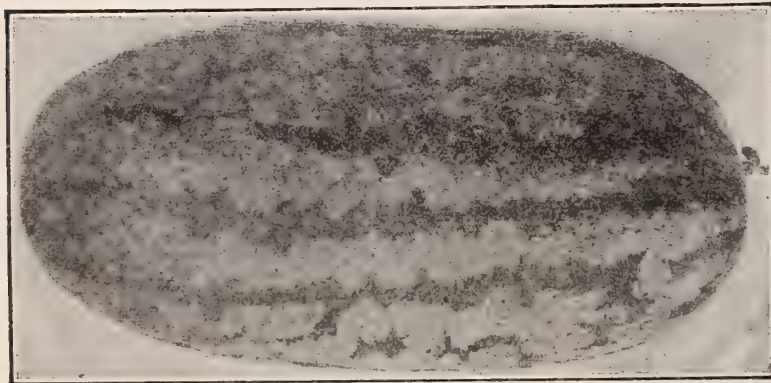
EXCEL—Many growers claim that for shipping it is even better than Tom Watson. In appearance it strongly resembles the Watson, has a very thin, tough rind, is uniformly large, averaging from 40 to 60 pounds. On the table it is as attractive as any melon can be, and its quality is fully equal to its attractiveness. It is an unusual melon in that, although a grand shipper, it is also one that we can highly recommend for private garden, the beautiful red meat being decidedly crisp, sweet and luscious, and solid to the center. Seeds are both black and white.

RIBAUT WATERMELON

This new melon grows from 24 to 30 inches long, and 14 to 18 inches in diameter. The rind is dark green, slightly striped with lighter green. Rind is thick and makes a good shipper. The meat is red and very sweet. Free from hard centers. Very large and prolific. Seed large white, with black rings on the tips. Has a small seed cavity and will mature in 95 days.

RATTLESNAKE WATERMELON

Large, oblong, striped and mottled; flesh bright red; a good shipper, a favorite variety in the South.



GEORGIA RATTLESNAKE

Thurmond Gray Watermelon

THURMOND GRAY WATERMELON—Thurmond Gray is similar to Irish Gray, except with larger melons, and brown seed instead of white. The rind is very tough and stands shipping as well as any melon grown. The flesh is free from strings, is fine grained, crisp and tender. Its eating qualities are excellent. Markets prefer the Thurmond to Irish Gray and will pay a premium for them, although there seems to be no difference in eating or shipping qualities.

IRISH GRAY WATERMELON

This new South Georgia variety is one that has attained great popularity on its merit. It's a combination melon, equally good for shipping or home use, being equal to or better than the Watson in that respect.

TOM WATSON

A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh deep red, crisp, melting and of finest flavor. Heart large, with little or no core. One of the best eating melons known.

DIXIE

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

SWEETHEART

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit, large oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

KLECKLEY'S SWEET

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

KOLB'S GEM—This is one of the largest, most productive, best keeping and best shipping watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

CITRON—For Preserves. Fruit round and handsome. Used in making preserves only.

WATERMELON	Pkt.	Oz.	¼ Lb.	1 Lb.	WATERMELON	Pkt.	Oz.	¼ Lb.	1 Lb.
TOM WATSON.....	.10	.15	.25	.60	KLECKLEY'S SWEET.....	.10	.15	.25	.75
THURMOND GRAY.....	.10	.15	.25	.75	EXCEL .....	.10	.15	.25	.75
RATTLESNAKE .....	.10	.15	.25	.75	KOLB GEM.....	.10	.15	.25	.75
DIXIE .....	.10	.15	.25	.75	IRISH GRAY.....	.10	.15	.25	.75
SWEETHEART .....	.10	.15	.25	.75	RIBAUT WATERMELON.....	.10	.15	.35	1.00
CITRON .....	.10	.15	.25	.90					

ENGLISH MILL TRACK MUSHROOM SPAWN

Cake, 30c., by mail, 35c., 10 lbs., \$2.50 by Freight or Express.
Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

CULTIVATION

Select fresh horse manure, with straw bedding. Put in a flat pile and cover with 2 inches or 3 inches of good soil. In the course of 3 or 4 days, turn over and mix thoroughly. Moisten with water, pile up and cover again with soil and allow the pile to heat. Turn again in 5 or 6 days and moisten as before. Repeat the above about 4 times, every 5 or 6 days. Put this mixture on floor about 8 inches deep in beds the size desired and pack down with shovel. When the heat rises to 100 degrees, wait until it recedes to about 70, then place the spawn. Keep same moist, make your bed in cellar, shed, pit or some building that can be darkened.

OKRA, or GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

WHITE VELVET

It is very distinct and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

ONION SETS



CULTIVATION OF SETS

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

WHITE

1 lb., about 1 qt., 30c.; mailed, 35c.

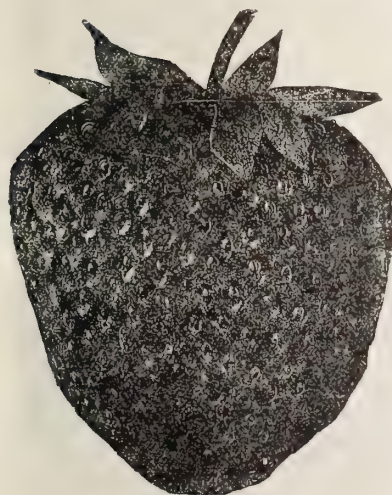
YELLOW

1 lb., about 1 qt., 25c.; mailed, 30c.

Ask for prices on sets by the bushel of 32 lbs. It requires 10 to 15-bushel sets to plant one acre.

STRAWBERRY PLANTS

DIRECTIONS FOR CULTURE
Numbers Indicate Earliness of Berry



In early winter when the ground is frozen, cover the whole with long straw, which should be removed from the plant in the spring, but allowed to remain on the ground as a mulch, to keep the berries clean next summer.

(1) **PREMIER**—One of the very best of extra early varieties; succeeds on almost all soil (if well drained). Produced in vast quantities, berries of good size, attractive appearance and excellent quality.

(2) **CHESAPEAKE**—Late. Large, firm and productive. One of the fanciest varieties grown.

(3) **BIG JOE**—This variety was introduced about twenty years ago, and proven a wonderful discovery. It is a mid-season to late variety, equally in size, firmness and yield as the Chesapeake, and superior in flavor and color. Succeeds on a great variety of soils.

(4) **KLONDYKE**—Medium early. Very productive, berries large and firm.

(5) **LUPTON**—Large, fine, medium early. A beautiful berry, solid and delicious.

(6) **GANDY**—Late. Large and firm.

Above varieties \$1.75 per hundred.

Add 10c. per 100 for postage.

FROST-PROOF CABBAGE PLANTS

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS.

Early Jersey Wakefield, Charleston Wakefield, Succession, Early Flat Dutch and Copenhagen Market.

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from December 1 until April. We do not advise planting later than this time.

Prices by Parcel Post, postage paid. In lots of 100, 200, 300, 400 plants at 50c. per 100 plants; 500 plants for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

Orders are filled by the 100, not 250 or 350. These prices are for even quantities of one variety to package; if you ordered 200 of one variety and 300 of another variety you would pay at the 100 rate.

Prices by Express, buyer paying express charges. In lots of 1,000 to 4,000 plants at \$2.00 per 1,000; 5,000 or more at \$1.50 per 1,000. Plants packed for express shipment, 1,000 or 2,000 plants of a variety to package, they weigh about 25 pounds per thousand plants, packed for shipment.

TERMS, CASH WITH ORDER, PLEASE

No Plants Shipped C. O. D.

ONION SEED

CULTIVATION TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



WHITE SILVERSKIN ONION



YELLOW DANVERS ONION

WHITE SILVERSKIN or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets.

AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.—This new onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant

WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper.

YELLOW DUTCH, or STRASBURG.—The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly.

YELLOW GLOBE DANVERS.—A very handsome, round, yellow onion: a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions.

PRIZE TAKER.—This is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prize-taker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success.

ONION	Pkt.	Oz.	¼ Lb.	1 Lb.
WHITE SILVER-				
SKIN or PORTUGAL	\$.10	\$.25	\$.75	\$ 2.25
AUSTRALIAN BROWN.	.10	.25	.60	2.00
WETHERSFIELD				
LARGE RED.....	.10	.25	.60	2.00
YELLOW DUTCH or				
STRASBURG .....	.10	.20	.60	2.00
YELLOW GLOBE				
DANVERS .....	.10	.20	.60	2.00
PRIZE-TAKER .....	.10	.25	.65	2.25



PARSNIP

The Parsnip will nourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

Hollow Crown or Sugar

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

NASTURTIUM



Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

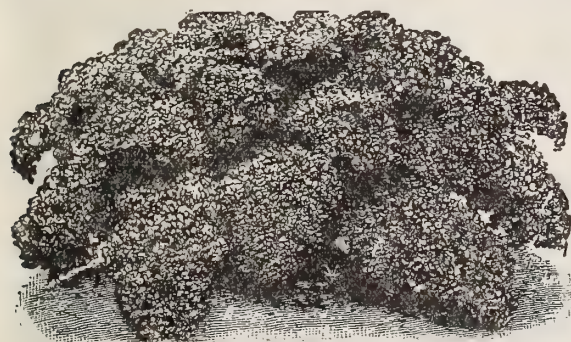
MUSTARD

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of great breadth, forming enormous bunches.

WHITE MUSTARD.—Seed for Pickles.

PARSLEY

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



BALTIMORE EMERALD GREEN TRIPLE CURLED PARSLEY.

—The newest and best variety yet introduced. Beautiful green color and finely curled and crimped.

DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

MOSS CURLED.—A very select crimped variety.

HAMBURG ROOTED OR GERMAN.—The root resembles a small parsnip and is the edible part of the sort; used for flavoring soups.

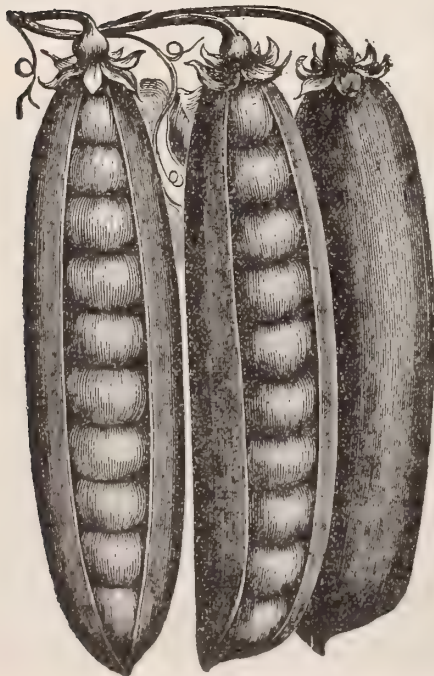
PARSNIPS	Pkt.	Oz.	¼ Lb.	1 Lb.
HOLLOW CROWN OR SUGAR.....		\$.10	\$.25	\$.75
MUSTARD				
GIANT CURLED.....		10	.20	.50
WHITE MUSTARD.....		.10	.20	.50
NASTURTIUM				
TALL MIXED.....		.10	.20	.60
DWARF MIXED.....		.10	.20	.70

PARSLEY	Pkt.	Oz.	¼ Lb.	1 Lb.
BALTIMORE EMERALD GREEN				
TRIPLE CURLED.....	\$.10	\$.15	\$.35	\$ 1.00
DWARF EXTRA CURLED.....	.10	.15	.25	.75
MOSS CURLED.....		.15	.25	.75
HAMBURG ROOTED GERMAN.....	.10	.15	.25	.75

PEAS



EXTRA EARLY ALASKA PEAS.



MARYLAND PRIDE PEAS.

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. Co.'s First Early Peas

This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth, and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Early Bird Peas

Recently introduced. Hardy, prolific, early. Earlier than Alaska or First and Best. Large podded and very prolific. Fine luscious flavor. Hardiness unsurpassed.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the earliest varieties.

BOUNTIFUL.—Ripening about three to four days later than extra early sorts. Much longer and thicker pods. Beautifully shaped, dark green color which is retained after earlier varieties have turned grey. Seed dented, and we recommend this pea to all market gardeners and truckers.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking.

PROLIFIC EARLY MARKET.—New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

Large Podded Extra Early Sugar Variety

MARYLAND PRIDE PEAS.—Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska.

THOMAS LAXTON.—Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor.

GRADUS, OR PROSPERITY.—Pale Green Wrinkled. The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit.

Peas by Weight	(1 pt.)	(1 qt.)	(1 pk.)	(1 bu.)
	About 1 lb.	2 lbs.	15 lbs.	60 lbs.
G. & T. CO'S FIRST EARLY	\$.20	\$.40	\$2.25	\$8.50
NEW LARGE-PODDED ALASKA	.20	.40	2.25	8.50
ALASKA	.20	.40	2.25	8.00
EARLY BIRD	.20	.40	2.50	9.00
FIRST AND BEST	.20	.40	2.25	8.00
BOUNTIFUL	.20	.40	2.25	8.50
PEDIGREE EXTRA EARLY	.20	.40	2.25	8.00
PROLIFIC EARLY MARKET	.20	.40	2.25	8.00
	1 lb.	2 lbs.	14 lbs.	56 lbs.
MARYLAND PRIDE	.20	.40	2.75	10.00
THOMAS LAXTON	.20	.40	2.75	9.50
GRADUS, OR PROSPERITY	.20	.40	2.50	9.00

Ask for prices in quantity. Add for postage, 8c. per lb., 10c. per 2 lbs.



NOTT'S EXCELSIOR
EVERBEARING

Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

IMPROVED LAXTONIAN

A fine, large mammoth-podded wrinkled pea. Vine is dwarf and is fine for home garden. Dark green.

PEAS	(1 pt.) About 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 14 lbs.	(1 bu.) 56 lbs.
Peas by Weight				
NOTT'S EXCELSIOR.....	\$.20	\$.40	\$2.50	\$9.00
AMERICAN WONDER.....	.20	.40	2.50	9.00
PREMIUM GEM.....	.20	.40	2.50	9.00
McLEANS GEM.....	.20	.40	2.50	9.00
GARDENER'S FAVORITE.....	.20	.40	2.50	9.00
ADVANCER.....	.20	.40	2.50	9.00
EVERBEARING.....	.20	.40	2.50	9.00
IMPROVED LAXTONIAN.....	.20	.40	2.50	10.00

Ask for prices in quantity.

Add for postage, 8c. per lb., 10c. for 2 lbs.

PEAS-CONTINUED

Postage paid on one and two pounds. Larger amounts add postage.

DWARF EXTRA EARLY VARIETIES **Nott's Excelsior**

It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

AMERICAN WONDER

Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

PREMIUM GEM

Height 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

McLEAN'S LITTLE GEM

Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled.

Second Early Half Dwarf Wrinkled Varieties

GARDENER'S FAVORITE

Height 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor; prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort.

ADVANCER

Height 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction.



GARDENER'S FAVORITE

PEAS—CONTINUED

Medium and Late Varieties



HEROINE PEAS.

HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive.

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which are so brittle that they snap without any strings.

TALL GRAY SUGAR (Edible Pods).—Cooked in the pods same as Snap Beans.

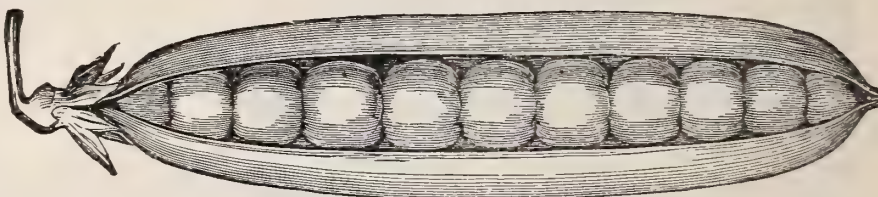
DWARF GRAY SUGAR (Edible Pods).—Quite a favorite.

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.

TELEGRAPH, or LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance.

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite.

DWARF CHAMPION PEAS.—Large podded of fine flavor, about 3 feet. Tall produces peas about four and one-half inches long. Medium late, fine for home grower.



IMPROVED SUGAR MARROWFAT PEAS.

PEAS

MEDIUM AND LATE VARIETIES

	Peas by Weight	(1 pt.) About 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 14 lbs.	(1 bu.) 56 lbs.
HEROINE		\$.20	\$.40	\$2.50	\$ 9.00
CHAMPION OF ENGLAND .....		.20	.40	2.50	9.00
TELEPHONE .....		.20	.40	2.50	9.00
TELEGRAPH, OR LONG ISLAND MAMMOTH .....		.20	.40	2.50	9.00
DWARF CHAMPION PEAS .....		.20	.40	3.00	10.00
		1 lb.	2 lbs.	15 lbs.	60 lbs.
IMPROVED SUGAR MARROWFAT .....		.20	.40	2.50	9.00
PEAS—EDIBLE POD					
MELTING SUGAR .....		.25	.50		
TALL GRAY SUGAR .....		.25	.50		
DWARF GRAY SUGAR .....		.25	.50		

Ask for prices in quantity. Add for postage, 8 c. lbs., 10c. for 2 lbs.

HERBS

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

	Pkts.	Oz.	¼ lb.	Lb.		Pkts.	Oz.	¼ lb.	Lb.
ANISE	5c.	15c.			DILL	5c.	15c.		50c.
BASIL	5c.	15c.			FENNEL (Sweet)	5c.	15c.		
BENE, use medicinally	5c.	15c.			LAVENDER	5c.	15c.		
BORAGE, excellent for bees	5c.	15c.			MARJORAM	5c.	25c.		
CARAWAY	5c.	15c.			ROSEMARY, an aromatic herb	5c.	35c.		
CHERVIL	5c.	25c.			SAGE (American)	5c.	20c.		
CHICKORY	5c.	15c.			THYME (broad-leaved English)	5c.	25c.		
CORIANDER	5c.	10c.							

PEPPER OR CAPSICUM

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

LARGE BELL OR BULL NOSE.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild flesh, of excellent quality for use in salads and pickles; color bright red when ripe.

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored.

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully matured of a rich red color. Flesh very thick, sweet and mildly flavored.

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily.

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and, when ripe, bright red in color. Extremely strong and pungent flesh.

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental.

RED CHILL.—Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe.

PIMIENTO.—The mildest flavored of all peppers. Its productiveness makes it a desirable sort for the home garden or market. Its smooth, thick flesh and uniform shape makes it an excellent shipper. Should be planted in every garden where a delicious sweet-flavored pepper is wanted both for salad and for stuffing.

CALIFORNIA WONDER.—Plants very vigorous. Is large, prolific and of good weight. Of finest quality and should be planted by all pepper growers. **Packet, 15c.; Oz., 50c.; ¼ Lb., \$1.50; Lb., \$5.00.**

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. Co.'s Maryland Sweet Potato

This is the best table pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious.

LARGE CHEESE, OR KENTUCKY FIELD.—A very large, flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality.

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

Connecticut Field

A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the flesh is brittle and sweet.

YELLOW CASHAW OR CROCKNECK.—Solid flesh, fine and sweet; keeps well.

SALSIFY OR VEGETABLE OYSTER

Sow in early spring in light, rich soil, in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners.

LARGE WHITE.—The old, well-known variety.

	Pkt.	Oz.	¼ Lb.	1 Lb.
PEPPER				
LARGE BELL, OR BULL NOSE.....	\$.10	\$.25	\$.75	\$2.75
RUBY KING.....	.10	.30	.75	2.75
SWEET MOUNTAIN.....	.10	.30	.75	2.75
CHINESE GIANT.....	.10	.40	1.25	4.50
LONG RED CAYENNE.....	.10	.30	.75	3.00
RED CHERRY.....	.10	.40		
RED CHILL.....	.10	.40		
PIMIENTO.....	.10	.35	.75	
PUMPKIN				
G. & T. CO.'S MARYLAND SWEET POTATO.....	.10	.15	.25	.80
LARGE CHEESE OR KENTUCKY FIELD.....	.10	.10	.20	.60
TENNESSEE SWEET POTATO.....	.10	.15	.20	.80
CONNECTICUT FIELD.....	.10	.10	.20	.50
YELLOW CASHAW OR CROCKNECK.....	.10	.15	.25	.80
SALSIFY				
SANDWICH ISLAND MAMMOTH.....	.10	.20	.50	1.75
LARGE WHITE.....	.10	.20	.50	1.75



G. & T. CO.'S
MARYLAND SWEET POTATO



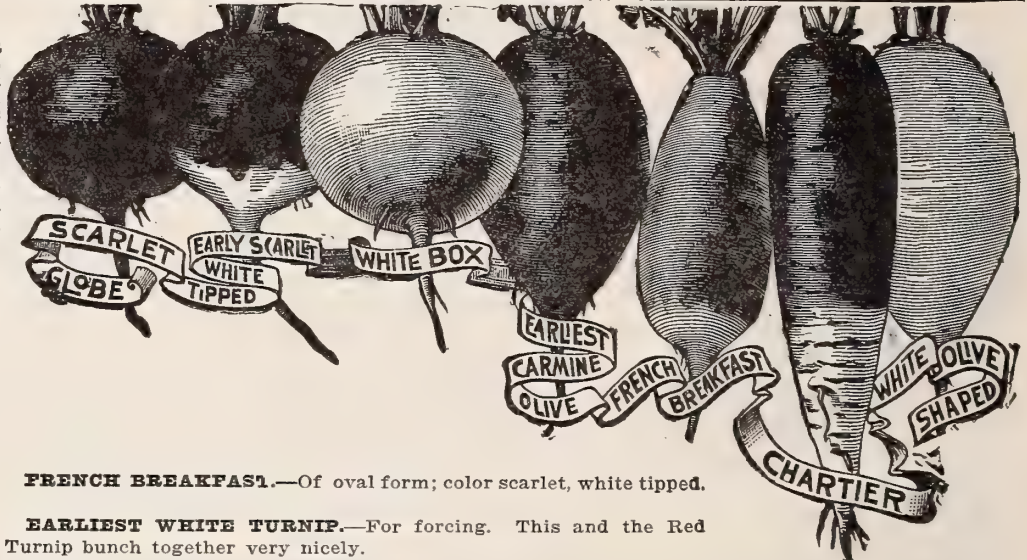
SALSIFY

RADISH

ONE OUNCE
WILL SOW
100 FEET
OF DRILL

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.



FRENCH BREAKFAST.—Of oval form; color scarlet, white tipped.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely.

EARLY RED TURNIP.—Turnip shaped; red skin; for forcing. Sometimes called Red Button Radish.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully.

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip.

SUMMER VARIETIES

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

DELICACY.—Resembles White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor.



White
Strasburg
Radish.

LONG VARIETIES

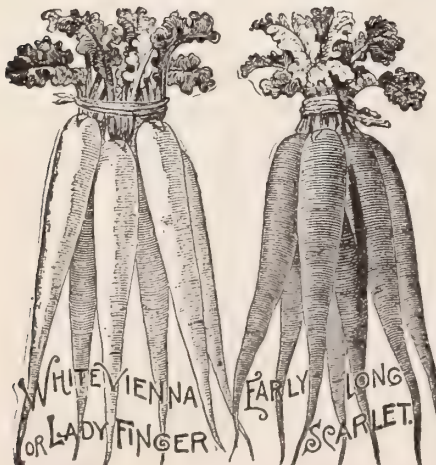
CINCINNATI MARKET NEW GLASS RADISH.—

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snowy white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

LONG SCARLET (Finest Grown).—Very attractive and sells rapidly. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

RADISH	Pkt	Oz	¼ lb	1 lb	RADISH	Pkt	Oz	¼ lb	1 lb
Early Scarlet or Prussian Globe...	.10	.15	.25	.70	Giant Stuttgart...	.10	.15	.25	.85
French Breakfast...	.10	.15	.25	.70	Chartier...	.10	.15	.25	.85
Earliest White Turnip...	.10	.15	.25	.70	Delicacy...	.10	.15	.25	.75
Early Red Turnip...	.10	.15	.25	.70	Golden Globe...	.10	.15	.25	.75
Scarlet Olive Shaped...	.10	.15	.25	.70	Cincinnati Market...	.10	.15	.25	.75
Early White Tipped					White Vienna, or				
Scarlet...	.10	.15	.25	.70	Lady Finger...	.10	.15	.25	.75
White Strasburg...	.10	.15	.30	.70	Long Scarlet...	.10	.15	.25	.70

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE



RADISH

WINTER VARIETIES

WHITE CHINESE WINTER, OR CELESTIAL.—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully matured the roots are six to nine inches long by about two and one-half to three and one-half inches in diameter. The flesh is compact and crisp.

CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts.

LONG BLACK SPANISH.—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring.

LONG WHITE SPANISH (Winter).—Fine keeping quality.

ROUND WHITE SPANISH.—A good fall or winter variety.

RADISHES—Winter Varieties	Pkt.	Oz.	¼ Lb.	1 Lb.
WHITE CHINESE, OR CELESTIAL.....	\$0.10	\$0.15	\$0.30	\$0.85
CHINESE ROSE WINTER.....	.10	.15	.30	.85
LONG BLACK SPANISH.....	.10	.15	.30	.85
LONG WHITE SPANISH.....	.10	.15	.30	.85
ROUND WHITE SPANISH.....	.10	.15	.30	.85

SPINACH



BLOOMSDALE SAVOY SPINACH

This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring sow in August, and protect the plants through the winter by a thick covering of clean straw or some other similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

DARK GREEN BLOOMSDALE SAVOY SPINACH.—As its name implies, it has all the merits of the Reselected Bloomsdale Savoy plants. Very much crumpled, stands long before going to seed and only two days later than the Savoy Spinach.

RESELECTED BLOOMSDALE SAVOY SPINACH.—Grown from pedigree stock, carefully rogued each year for the true Bloomsdale Savoy Spinach plants.

IMPROVED LONG STANDING BLOOMSDALE SAVOY SPINACH.—A most desirable sort, very curly and dark green. Stands ten days longer, or more, than the other savoy types before going to seed. While it is a slow seeder, it requires a longer time before it is fit to cut, because it is a slower grower than the other Bloomsdale varieties.

VICTORIA LONG STANDING.—Slow to run to seed, dark green in color. Good for spring sowing.

LONG SEASONS.—Long standing; slow to run to seed; crimped, dark green. For spring sowing.

TRIUMPH.—Long standing; slow seeder; crimped dark green. Good for spring sowing.

JULIANA.—Long standing. The finest crinkled sort of the flat types. Lots of foliage and very shy seeder. Dark green foliage and fine for summer sowing.



LONG STANDING SPINACH

New Zealand Spinach

THE HOT WEATHER SPINACH
will resist heat and make a strong growth during the summer. The plants will continue to grow until late fall, supplying all during summer and fall an abundance of rich green leaves. It cannot stand frost like other spinach; for family gardens only.

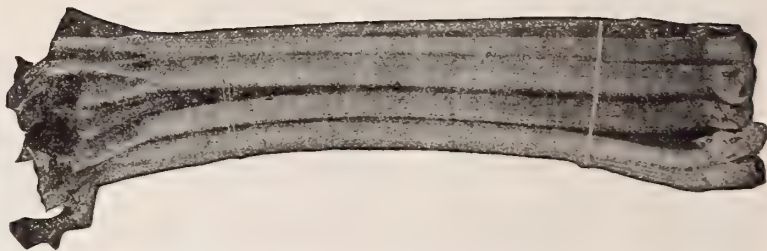
SPINACH	Pkt.	Oz.	¼ Lb.	1 Lb.
RESELECTED BLOOMSDALE SAVOY.....		\$.10	\$.15	\$.30
IMPROVED LONG STANDING BLOOMSDALE SAVOY .....		.10	.15	.30
DARK GREEN BLOOMSDALE SAVOY.....		.10	.15	.30
VICTORIA LONG STANDING.....		.10	.15	.30
LONG SEASONS.....		.10	.15	.30
TRIUMPH .....		.10	.15	.30
JULIANA .....		.10	.15	.30
NEW ZEALAND.....	\$.10	.15	.25	.75

ASK FOR PRICES IN QUANTITY

RHUBARB OR PIE PLANT

ONE OUNCE OF SEED TO 125 FEET OF DRILL

CULTURE—Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 or 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil. The more manure the better stalks. For winter forcing take up two-year roots in fall, leave out to freeze, then bed close together on cellar bottom or under greenhouse bench in the dark.



Package, 10c.; Ounce, 20c.; ¼ Lb., 35c.; 1 Lb., \$1.25

RHUBARB ROOTS

20c. Each.

Dozen, \$2.00

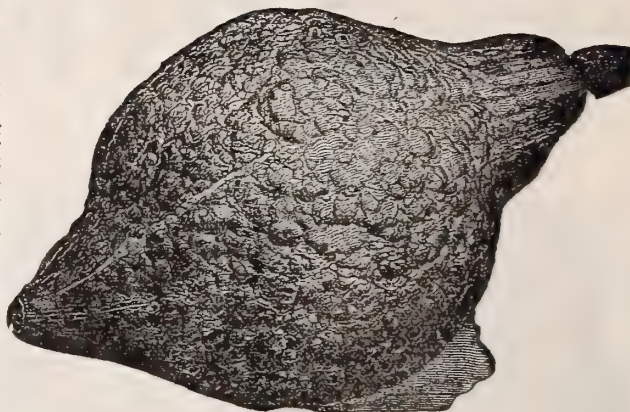


Early White Bush Scallop

SQUASH

The squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP—A desirable and marketable sort. Best known and most productive of all the summer sorts.



Hubbard

SUMMER CROOK NECK (Early)—Fine flavor; a desirable-table sort.

WINTER CROOK NECK—Flesh red, fine flavor; largely grown for winter use.

HUBBARD—The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities

BENNING'S WHITE BUSH SQUASH—Tinted green. Same shape as White Bush, but preferred by growers, on account of its beautiful rich green-tinted color.

BOSTON MARROW—A popular variety, with large oval fruit. Skin bright reddish-orange, with light cream netting. Flesh orange. Fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and delicious flavored dish.



Boston Marrow



Summer Crook Neck

SQUASH	Pkt.	Oz.	¼ Lb.	1 Lb.
EARLY WHITE BUSH SCALLOP.....	\$.10	\$.15	\$.25	\$.75
SUMMER CROOK NECK.....		.15	.25	.75
WINTER CROOK NECK.....		.15	.25	.75
HUBBARD.....	.10	.15	.25	.90
BOSTON MARROW.....	.10	.15	.25	.75
BENNING'S WHITE BUSH SQUASH.....	.10	.15	.35	1.00

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

T O M A T O



BONNIE BEST TOMATO

The fruit is even in size, smooth, round, red, of delicious flavor, ripening to stem. It does not have the green surface like Earliana and other extra early varieties.

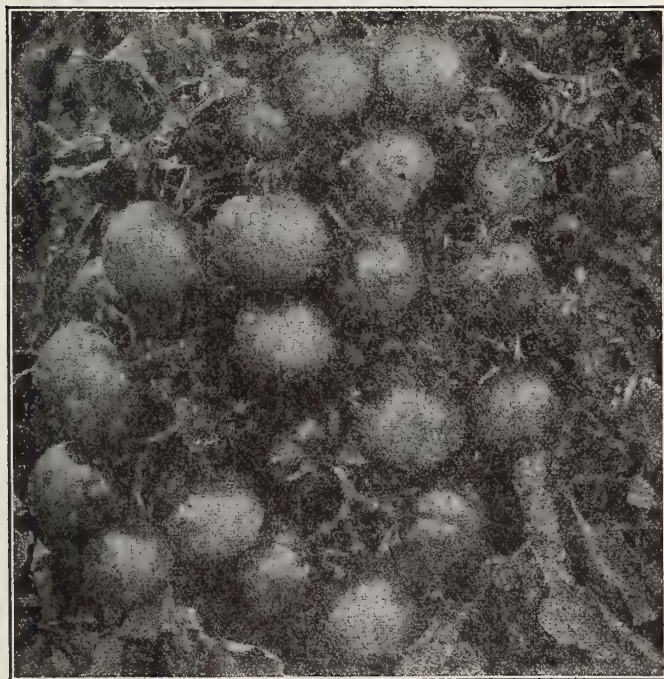
For early fruit sow the seed in March or April in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved, both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.

BONNIE BEST TOMATO

As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel and, within a day or two, if not quite as early, as Spark's Earliana. Truckers who tested it claim it is as early as Earliana.

It is a vigorous grower, very prolific, with dense foliage, which protects the fruit from the hot sun when other varieties like the Earliana have scalded fruits.



MARGLOBE TOMATO

CHALK'S EARLY JEWEL.—Deep fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.
JOHN BAER.—New, early prolific. Fine flavor and shape; quite as early as **Bonny Best**.

MARGLOBE TOMATO

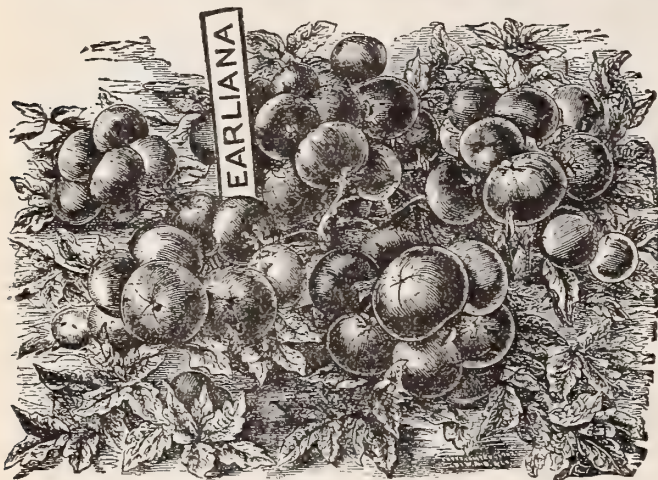
EARLY WILT-RESISTANT VARIETY

which originated from a cross between Marvel and Globe. This cross was made by an expert plant breeder of the United States Department of Agriculture, with the purpose in mind of developing an early type of Wilt-Resistant tomato.

By crossing with the Globe it was found possible to select from the resulting hybrids a very desirable type of second-early tomato, combining the scarlet color of the Marvel with the globular form, fine texture and mild flavor of the Globe. With this excellence of fruit was carried the equally desirable character of Wilt-Resistance to the extent that Marglobe will continue to bear fruit and retain its green foliage when planted on wilt-infested soils, where the early varieties such as Earliana and Bonny Best will be overcome by the disease before their maximum fruit-bearing period has been reached.

TOMATO	Pkt.	Oz.	¼ Lb.	1 Lb.
BONNY BEST	\$.10	\$.30	\$.90	\$3.00
MARGLOBE (Limited Supply) .....	.10	.40	1.00	3.50
CHALK'S EARLY JEWEL .....	.10	.30	.90	3.00
JOHN BAER .....	.10	.30	.90	3.00

EARLY RED VARIETIES



SPARKS' EARLIANA.—The earliest bright red Tomato; very large, smooth, color bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center. small seed cells, slightly acid.

EARLY I. K. L. TOMATO.—Earliest, largest, most prolific.

EXTRA EARLY RUBY

While not as early as Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; It makes a splendid main crop variety; a great keeper and shipper.

EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality.

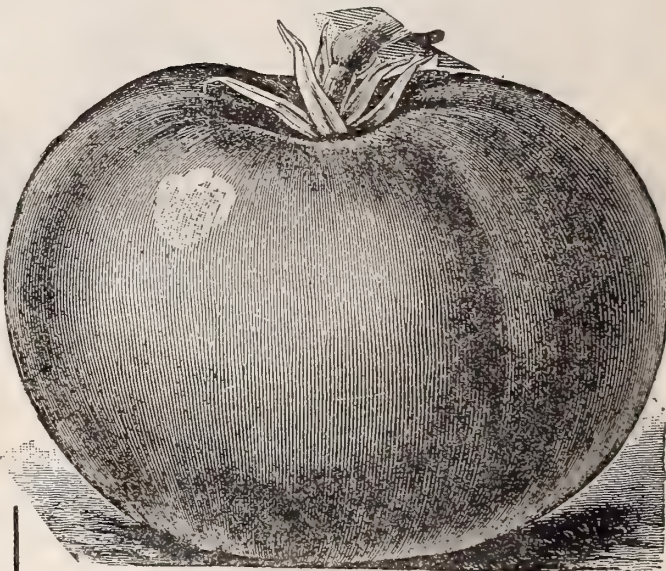
SMALL FRUITED VARIETIES

PEAR SHAPED RED.—

PEAR-SHAPED YELLOW.—Used for preserves and pickles.

YELLOW PLUM.—Color bright yellow; excellent for preserving.

MAIN CROP



Griffith & Turner Co.'s World's Fair

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many much-newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

TOMATO	Pkt.	Oz.	¼ Lb.	1 Lb.
WORLD'S FAIR.....	.10	\$.30	\$.75	\$2.50
SPARKS' EARLIANA.....	.10	.30	.85	3.00
EARLY I. K. L.....	.10	.30	.85	3.00
EXTRA EARLY RUBY.....	.10	.30	.90	3.00
BEAUTY.....	.10	.30	.85	3.00
DWARF CHAMPION.....	.10	.40	1.10	4.00
PRIZETAKER.....	.10	.30	.85	3.00
PONDEROSA.....	.10	.40	1.25	
PEAR-SHAPED RED.....	.10	.35	1.25	
PEAR-SHAPED YELLOW.....	.10	.35	1.25	
YELLOW PLUM.....	.10	.35	1.25	
NEW STONE.....	.10	.30	.75	2.50
GREATER BALTIMORE.....	.10	.30	.75	2.50
LIVINGSTON'S FAVORITE.....	.10	.30	.75	2.50
PARAGON.....	.10	.30	.75	2.50
NEW SUCCESS.....	.10	.30	.85	3.00
NEW QUEEN.....	.10	.30	.75	2.50
RED ROCK.....	.10	.30	.75	2.50
WISDOM.....	.10	.30	1.00	3.50
MATCHLESS.....	.10	.30	.75	2.50
BRINTON'S BEST.....	.10	.30	.75	2.50
KELLY RED.....	.10	.30	.75	2.50
MY MARYLAND.....	.10	.30	.75	2.50

MAIN CROP VARIETIES



THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth; with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; not subject to rot.

"GREATER BALTIMORE" TOMATO.—Makes a fine crop.

LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size.

PARAGON.—Well-known standard bright red Tomato.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of the finest quality, handsome appearance, large size and great productiveness.

NEW QUEEN TOMATOES.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

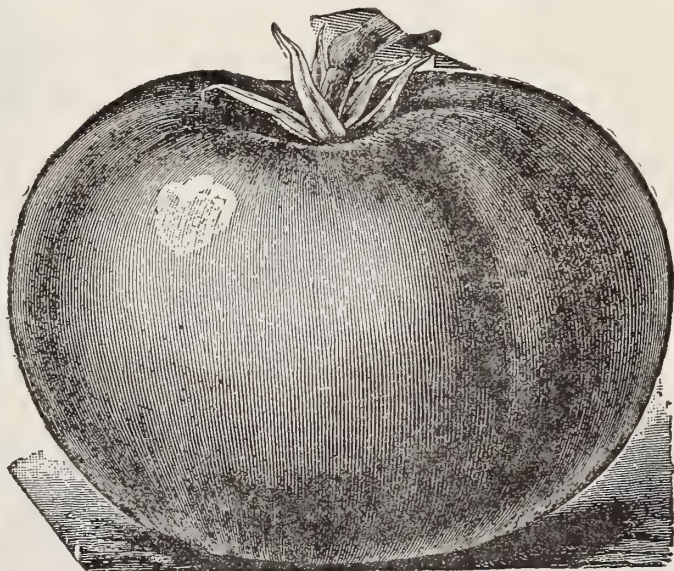
MY MARYLAND TOMATO.—My Maryland is an exceptionally heavy yielder of wonderfully uniform, well shaped, solid, smooth, bright red tomatoes. It is a second early or main crop variety, and the fruit is entirely free from roughness and cracks.



RED ROCK

One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming tomato for main crop and canners' use.

WISDOM.—Recently introduced. Medium early; good cropper, fine size and flavor. Good for early or late planting.



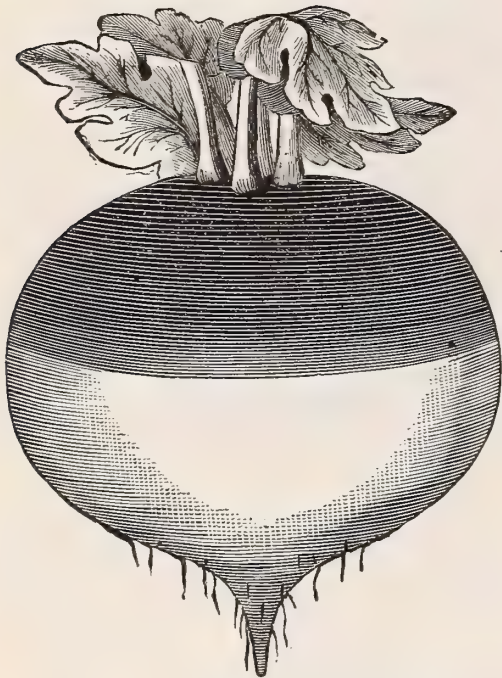
MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.

KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

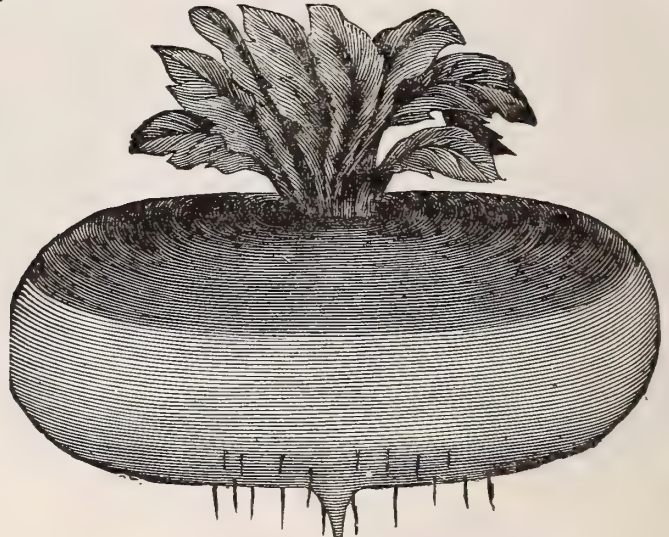
SEE PRICES OPPOSITE PAGE

TURNIP



Improved Purple or Red Top Globe Turnip.

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe.



Red or Purple Top Flat Strap-Leaved Turnip.

A very early, strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap-Leaved.

YELLOW ABERDEEN, or SCOTCH YELLOW—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

LARGE AMBER or YELLOW GLOBE—Grows to a large size; flesh yellow, firm and fine grained. Excellent for either table use or feeding stock.

SEVEN TOP—For greens and salads. Used largely in the Southern States.

EXTRA EARLY PURPLE TOP MILAN—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

WHITE FLAT—Differs from Red Top only in color.

EARLY WHITE EGG—A new variety of rapid growth; egg-shaped and white, as its name indicates.

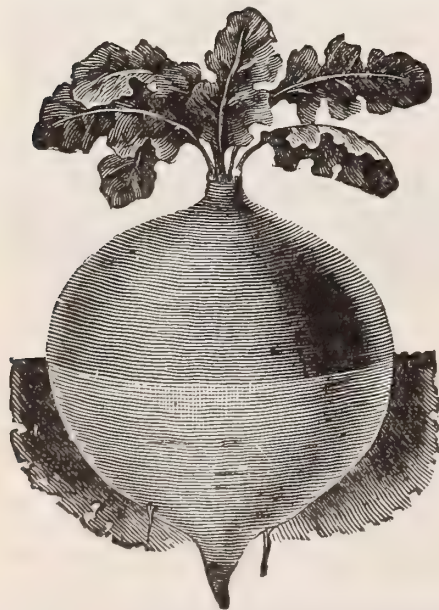
COW HORN (Large Croppers)—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

SOUTHERN PRIZE—True strain of the favorite Turnip for greens in Virginia and Carolinas. Valued also for its bulk.

RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP—Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.



G. & T. Co.'s Improved Purple Top Rutabaga.

TURNIPS	Oz.	¼ Lb.	1 Lb.
IMPROVED PURPLE OR RED TOP GLOBE.....	.10	\$.15	\$.50
PURPLE TOP STRAP-LEAF.....	.10	.15	.50
YELLOW ABERDEEN.....	.10	.15	.50
LARGE AMBER or YELLOW GLOBE.....	.10	.15	.50
SEVEN TOP.....	.10	.15	.50
EXTRA EARLY PURPLE TOP MILAN.....	.10	.15	.60
WHITE FLAT.....	.10	.15	.50
EARLY WHITE EGG.....	.10	.15	.50
COW HORN.....	.10	.15	.50
SOUTHERN PRIZE.....	.10	.15	.50
RUTABAGAS			
G. & T. CO.'S IMPROVED PURPLE TOP.....	.10	.15	.50

POTATOES

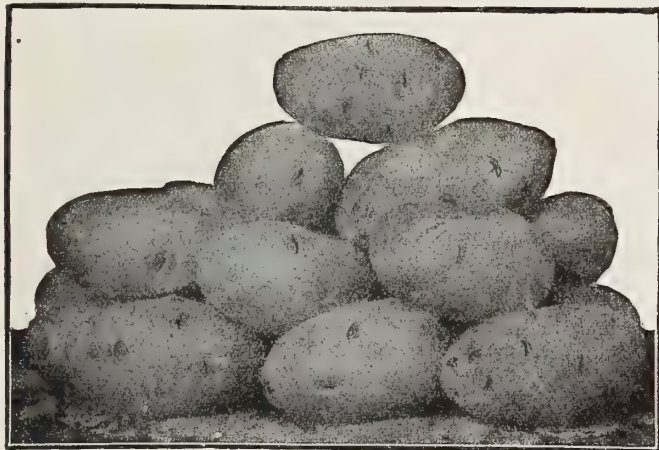
MAINE OR NORTHERN GROWN

ALL POTATOES SOLD BY WEIGHT ONLY

Owing to fluctuations in market for potatoes, ask for prices in quantity.

A Bushel Consists of 60 Pounds.

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



Extra Early Prize Potatoes

G. & T. CO'S EXTRA EARLY PRIZE.—This potato is in all respects a very popular early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best early potato on the market today.

RED BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

SPAULDING ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose grown in other sections.

IRISH COBBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. After years' experience we find that it is a very superior variety. Don't fail to get it.

We are only listing a few of the best varieties of Potatoes this year, as we find it next to impossible to secure so many of the kinds we formerly listed true to name. The above kinds are Maine grown and first class in every respect.

Price, up to 15 lb. lots, at 5c. per pound. Write for price in quantity.

SWEET POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

ASK FOR PRICE IN LARGE QUANTITIES.

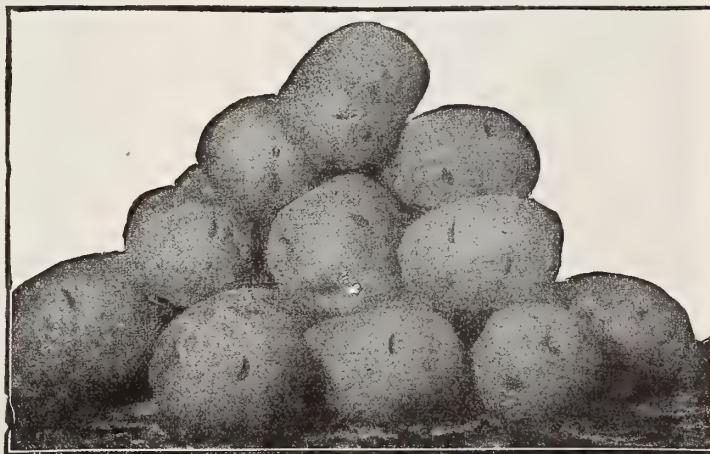
ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

GREEN MOUNTAIN

This is a most excellent late Potato; it does remarkably well on poor soils, and is very free from disease; it resists drought wonderfully well and produces tubers of large size and attractive appearance; flesh white. It is a good keeper, and when put away in the fall will keep well until spring. Matures in 140 days.



Irish Cobbler Potatoes.

If wanted by mail, add for Parcel Post charge as per table on inside 1st Cover Page.

YELLOW FIELD CORN

CHESTNUT GROVE YELLOW CORN—This corn was grown on Chestnut Grove Farm, Baltimore County, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50

NEW MARYLAND YELLOW DENT—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

IMPROVED EARLY LEAMING—Bred and tested for 10 years. Pedigree stock. An early selected variety of yellow corn; small grains, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

G. & T. CO.'S IMPROVED GOLDEN BEAUTY—A large, broad-grained yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50. Crop failed.

Postage, 8c. per lb. extra.

90-DAY YELLOW—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50.

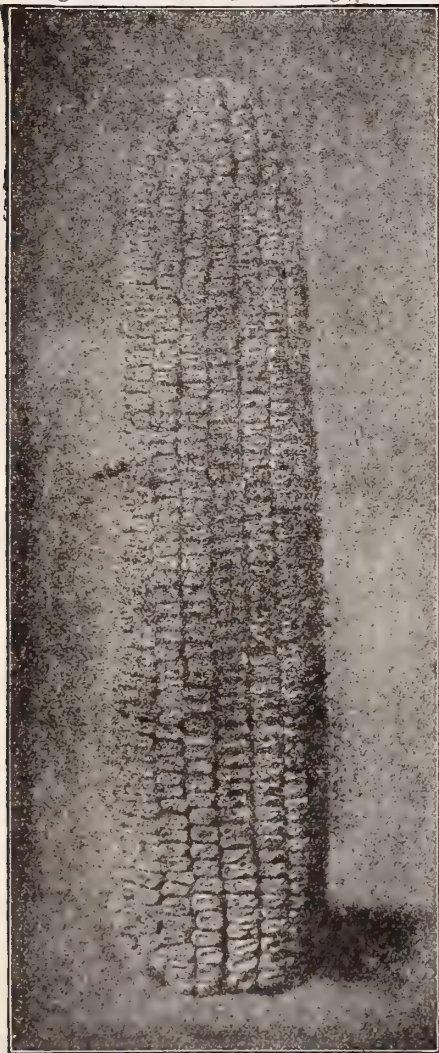
Postage, 8c. per lb. extra.

REID'S YELLOW DENT CORN—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50.

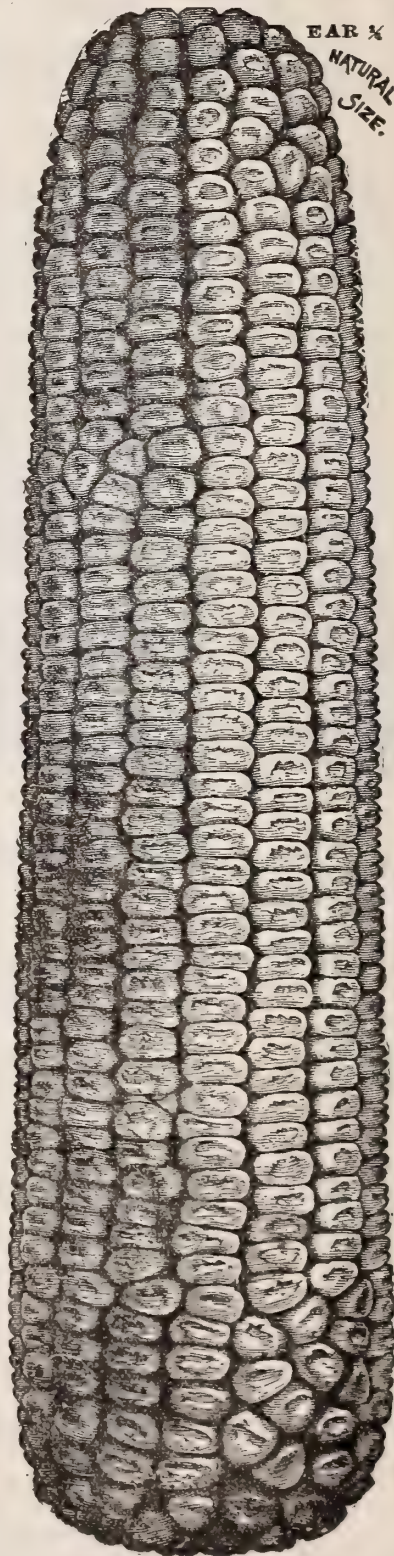
Postage, 8c. per lb. extra.

SMOKY YELLOW DENT—The earliest dent Corn today; a good yielder and entirely free from disease. It is the most beautifully colored up corn in cultivation. Sides of grain red, with white cap. Grows strong, quick and has splendid seven to eight foot fodder. Will mature in 75 to 80 days. Price: 1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) \$1.00. 56 lbs. (about 1 bu.) \$3.50.

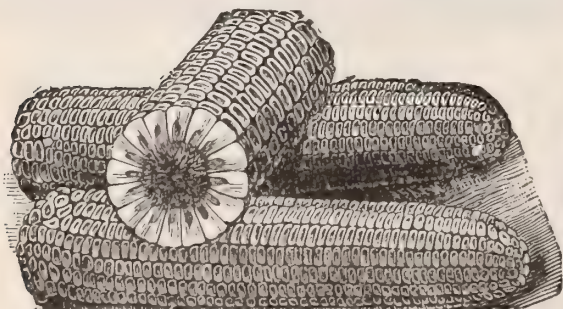
Postage, 8c. per lb. extra.



Maryland Yellow Dent Corn



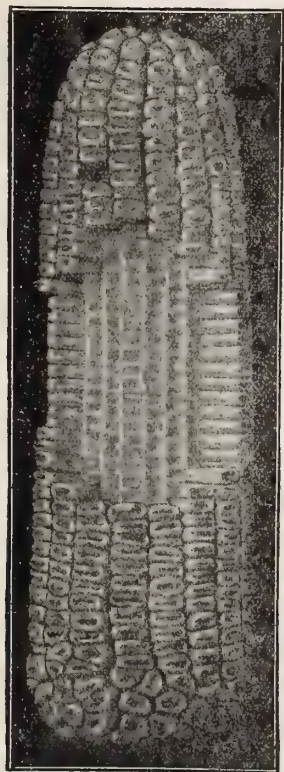
GRIFFITH & TURNER CO.'S CHESTNUT GROVE YELLOW CORN



Golden Beauty (Yellow)



Improved Yellow Leaming



Boone County White Corn.

WHITE FIELD CORN

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. $1\frac{3}{4}$ lbs., (about 1 qt.) 20c. 14 lbs., (about 1 pk.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

BOONE COUNTY WHITE.—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. Prices: $1\frac{3}{4}$ lbs., (about 1 qt.) 20c. 14 lbs., (about 1 pk.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

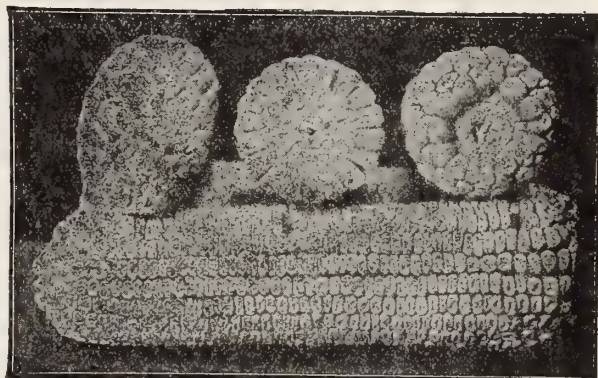
90-DAY CORN (White with red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. is suitable for either early or late crop. $1\frac{3}{4}$ lbs. (about 1 qt.). 14 lbs. (about 1 pk.). 56 lbs. (about 1 bu.). Crop Failed.

Postage 8c. per lb. extra.

WHITE ENSILAGE CORN.—Specially adapted for ensilage. 56 lbs., (about 1 bu.) \$3.50.

POPCORN POPPERS.—35c. each.

Postage 8c. per lb. extra.



Maryland White Dent Corn.

JOHNSON COUNTY WHITE CORN

A favorite white corn in the Western Corn Belt. Ears are a little longer than the Boone Co. White, but about the same diameter. Good deep grain on small, white cobs, and not quite so indented as the Boone Co. It will shell from six to seven bushels per barrel.

We recommend it as a fine general main crop sort. Will mature in about 120 days. Has abundant foliage, which makes it also valuable for ensilage purposes.

$1\frac{3}{4}$ lbs., (about 1 qt.) 20c. 14 lbs., (about 1 pk.) \$1.00, 56 lbs., (about 1 bu.) \$3.50.

Postage, 8c. per lb. extra.

SEED OATS

IMPROVED WHITE TARTAR.

The most remarkable Oats now under cultivation. Our customers say they will sow no others. These grand Oats outyield all others. The very best for all-around purposes. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather. A measured bushel weighs from 36 to 42 pounds. Would highly recommend these oats to all our customers. Change your seed this season. **Bushel of 32 lbs., \$1.75.**

NEW VICTORY OATS

This splendid heavy white branching Oat originated in Sweden. Has good length of straw, stands up well, with a strong root system. Heads are branching and well filled with the finest quality grain, for feeding or milling purposes. It has yielded in good season from 75 to 100 bushels per acre. Sow $1\frac{1}{2}$ to 2 bushels per acre. **Price \$2.00 per bushel.**

WHITE-SEED OATS

For spring sowing. 32 pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.



SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, re-cleaned and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the western plains.

BARLEY

BEARDLESS FALL BARLEY.—A fall variety without beards. Ask for prices.

BEARDED FALL BARLEY.—A heavy yielder, much better than spring sown. Sow in September for best results. Ask for prices.

HIGH-GRADE GRASS SEEDS



TIMOTHY

TIMOTHY (Phleum pratense.)

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands, or in mountainous districts, although it will do well on any good, stiff, loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard. Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with Timothy is either the Sapling or Alsike, as they mature and ripen with Timothy. **Bushel, 45 lbs.**

RED TOP, OR HERD'S GRASS (Agrostis vulgaris.)

This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

UNHULLED RED TOP.—Seed in hull but free of chaff and impurities. Sow 2 to 3 bushels to the acre; 14 lbs. to the bushel.

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

FANCY CLEANED RED TOP.—Sow 12 to 15 lbs. to the acre. **32 Lbs. to the Bushel.**

RED FESCUE.—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep.

Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. **14 Lbs. to Bushel**

ITALIAN RYE GRASS.—Is an annual and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **20 Lbs. to Bushel.**

ENGLISH RYE GRASS (Lolium Perenne).—This makes a quick growth very early in the spring, and is adapted for cool, moist locations. **60 lbs. to the acre. 24 Lbs. to Bushel.**

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. **14 Lbs. to Bushel**



KENTUCKY BLUE GRASS

ORCHARD GRASS (Dactylis glomerata).—One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. **14 Lbs. to Bushel.**

TALL MEADOW OAT GRASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green siloing it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel).

CREeping BENT GRASS (Agrostis stolonifera).—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth.

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).

This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. **22 Lbs. to Bushel.**



ORCHARD GRASS

	1 Lb.
TIMOTHY	\$.15
RED TOP UNHULLED .....	.25
RED TOP FANCY .....	.32
RED FESCUE .....	.45
ITALIAN RYE GRASS .....	.20
ENGLISH RYE GRASS .....	.20

	1 Lb.
KENTUCKY BLUE	\$.50
ORCHARD GRASS .....	.25
TALL MEADOW OAT GRASS .....	.25
CREeping BENT GRASS	1.50
MEADOW FESCUE .....	.25

Ask for prices in quantity.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

FORAGE AND SILO SEEDS

SHOULD BE SOWN IN THIS LATITUDE, NOT BEFORE MAY 15TH. AS SEED WILL NOT STAND COOL, WET WEATHER.

COW PEAS

The great soil enricher. Makes poor land rich and good land better. They also make good green forage for ensilage, and the best quality of Hay when cured.

The sowing of **COW PEAS** is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen, cut Peas off and cure for hay; turn down roots, which will give as good results as when whole plant is used. For ensilage they are unsurpassed, being more nutritious than green corn, but when used for this purpose, would advise sowing Sugar Cane or Sorghum in connection with them. The two combined will make one of the very richest feeds.

BLACK—This is the standard variety, makes a fine growth, both of vine and leaves, and a good yield of peas. It is a splendid land improver, and most valuable as a forage crop.

WHIPPOWILL—A favorite, early, upright-growing variety, more largely used and sold than any other kind. Has brown speckled seed, which are easily gathered. Makes a good growth of vine, which can be easily cut and cured as dry forage.

NEW ERA—An early maturing variety which has proved very popular and satisfactory. It is upright growing, quick to mature, and remarkably prolific of peas. Rather small vine, which cures easily, making splendid dry forage. The seed are smaller in size than the ordinary cow pea, so that it does not require as many to seed an acre; one bushel per acre will give ample seeding.

MIXED COW PEAS—Are fine for forage or improving the soil generally. Sold at a lower price than the named varieties.

SOJA BEANS

The great drought-resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, may be planted in drills three feet apart and one foot between plants.

MAMMOTH YELLOW SOJA

The largest-growing and most popular of soja beans for forage purposes. A little later in maturity than other kinds, but makes larger yields, both of forage and seed. Especially valuable in the South.

VIRGINIA BROWN SOJA BEANS

Coming into use very extensively; about the same size as the Wilson, just as early and preferred by many growers to other varieties. **Prices on application.**

HOLLYBROOK SOJA BEANS

Makes a quicker growth and matures its crop two or three weeks earlier than the Mammoth Yellow Soja. Sown as a forage or hay crop, it is much easier to cure and handle than cow peas.

WILSON BLACK SOJA BEANS

One of the best, in our opinion, for the Northern States, where a quick, early variety is desired. Average height on good land is 2½ to 3 feet. A prolific variety, and requires about 90 days to be ready to cut for hay.

SORGHUM, OR SUGAR CANE FOR FODDER

EARLY AMBER grows 10 to 12 feet high, and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. **Lb., 10c. Peck, (—).**

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons. **Prices same as Early Amber.**

KAFFIR CORN

The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre.

GERMAN MILLET

A fine, quick-growing summer Hay crop. Should be sown thick, not less than one bushel per acre. Cut while in flower. It should be sown any time after middle of May up to first of August. A crop will mature in seven to eight weeks in ordinary warm growing weather. **Price, Lb., 10c. Peck, (—). Ask for price by the bushel.**

CANADA FIELD PEAS

Sown in February, March or April, with a small quantity of oats, they make large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half bushel of oats. Cut for hay before the peas mature. **Write for Special Prices if a quantity is required.**

BROOM CORN

To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet. **Lb., 35c., postpaid. 10 lbs. at 30c. lb. 50 Pounds to Bushel.**

RUSSIAN SUNFLOWER

Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. **Lb., 12c.**

DWARF ESSEX RAPE

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 pounds to the acre, or 2 to 3 pounds in drills. It is unequalled as a pasture for sheep, and as a fattening food for all kinds of livestock it is without a rival. **Lb., 12c.; by express, 10 lbs. and over, 10c. lb., not prepaid; \$9.00 per 100 lbs.**

VETCHES OR TARES

SPRING VETCHES (*vicia sativa*).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 40 to 60 pounds to the acre. Sow in spring while ground is cool and moist. **Pound, 10c.**

WINTER VETCHES (*vicia villosa*).—Also called Sand Vetch or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 30 to 50 lbs. per acre. **Pound, 18c.**

FLAXSEED.—Lb., 12c. 3 lbs., 35c. Postage extra.

ASK FOR QUOTATIONS ON ABOVE.



COW PEAS

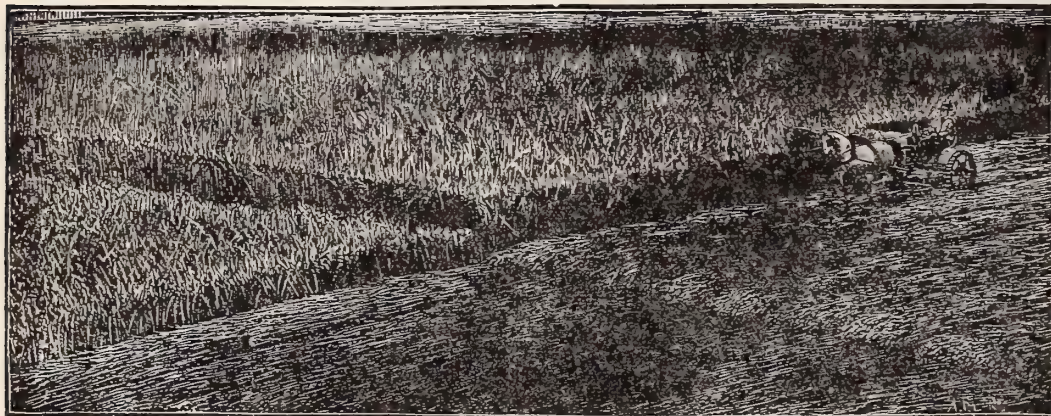


SOJA BEANS



VETCHES

Grass Mixture for Hay and Permanent pastures



Prepared especially to meet the demand for a mixture that will be desirable for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground

MIXTURE FOR UPLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$4.50; 10 bushels for \$42.50.
MIXTURE FOR LOWLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$4.50; 10 bushels for \$42.50.

Grass and Clover Seed Mixtures, for Moving the Hay, But Can Be Grazed

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended. They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended.

MIXTURE No. 1.—For Moist Bottom Lands. Sow 25 lbs. to the acre. Price, Lb., 35c. 10 lbs. and over, 30c. per lb.
MIXTURE No. 2.—For Light, Dry, Gravelly or Sandy Soils. Sow 35 lbs. to the acre. Price, Lb., 35c. 10 lbs. and over, 30c. per pound.

CLOVERS



ALSIKE CLOVER.



CRIMSON CLOVER.



WHITE CLOVER.



RED CLOVER.



LUCERNE OR ALFALFA CLOVER.

RECLEANED RED CLOVER.—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have however, cheaper grades for those who wish them. 35c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER.—Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone. Lb. 35c.

Ask for prices in quantity.

WHITE DUTCH CLOVER.—Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. ¼ lb., 20c. ½ lb., 30c. 1 lb., 60c. By mail, lb., 70c. 10 lbs., by express, not prepaid, \$5.00.

LUCERNE OR ALFALFA CLOVER.—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre. Lb., 35c.

Special prices in large quantities on application.

CRIMSON CLOVER (The Great Nitrogen Gatherer).—The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 15c. per lb. Write for prices in quantity.

WRITE FOR SPECIAL PRICES ON ABOVE.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

LAWN GRASS SEED



PREPARATION AND CARE OF LAWNS

The ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as smooth as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawnmower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS

This is a first-class mixture, prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, close-cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. $\frac{3}{8}$ lb. (about 1 pt.) 20c., $\frac{1}{4}$ lb. (about 1 qt.) 35c., by mail 45c.; $1\frac{1}{4}$ lbs. (about 2 qts.) 65c., $2\frac{1}{2}$ lbs. (about $\frac{1}{2}$ peck) \$1.15, 5 lbs. (about 1 peck) \$2.25, 20 lbs. (1 bushel) \$8.00. By freight or express not prepaid.

GRIFFITH & TURNER CO.'S GOLF LINK MIXTURE

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have been mixed in proper proportion to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors. It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel. **Bushel, \$3.00.**

SHADY NOOK GRASS

On nearly all lawns there are bare spots under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state. Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake. **Price: Lb., 50c. 5 Lbs., \$2.50. Bu. of 20 lbs., \$9.00. Add 8c. per lb. for postage.**

"TERRACE" SOD MIXTURE

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time will produce a rich, velvety green turf throughout the season. **Pound, 60c. Peck, about 5 lbs., \$2.50. Bushel of 20 lbs., \$9.00.**

PARK LAWN GRASS

A very good mixture of Lawn Grass, made of the purest grasses, but not as good as our Evergreen Lawn Seed. Suitable where a fine lawn is not required. **Pound, 35c. 5 lbs. (pk.), \$1.50. Bushel of 20 lbs., \$6.00.**

All Plant Life Must Have Food

Like human beings they require a balanced diet for normal, healthy growth. Vigoro, the complete, scientifically prepared plant food, contains all the nourishment necessary to produce thick, velvety-green lawns; large, richly colored flowers; early delicious vegetables; and healthy, full-foliaged trees.

Vigoro is clean, odorless, and easy to use. It's economical, too! Full directions in every bag.

HOW MUCH VIGORO TO USE

30 ft. x 125 ft. needs	75 lbs.
50 ft. x 125 ft. needs	150 lbs.
75 ft. x 150 ft. needs	250 lbs.
100 ft. x 150 ft. needs	350 lbs.
150 ft. x 150 ft. needs	675 lbs.

Prices

100-lb. bag...	\$5.00
50-lb. bag...	3.00
25-lb. bag...	1.75
5-lb. pkg...	.50
12-oz. pkg...	.10

Prices are f. o. b.
Baltimore.

VIGORO

Complete plant food

A product of
Swift & Company



For Lawns, Gardens, Flowers, Shrubbery and Trees

ADCO

(Registered Trade Mark)

converts garden refuse, such as leaves, stalks, cuttings, potato, bean and pea vines, etc., into

ARTIFICIAL MANURE

(Patented in the United States and Abroad)

ADCO is a powder which, when mixed with almost any non-woody vegetable waste, straw, leaves, weeds, and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed-seeds, etc. The process is perfectly simple and not at all laborious.

GARDENERS can now have plenty of manure at low cost and little trouble.

FARMERS, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor of maintaining livestock.

Directions for Treating GARDEN REFUSE

The refuse should be arranged in layers, each layer being thoroughly saturated with water and then sprinkled with ADCO in the proportion of one pound to 25 (two pounds of ADCO to every 50-pound barrow load of refuse).

Nothing further is required beyond keeping the heap moist or wet and perhaps turning it over once or twice to allow air to have access to the fermenting mass. In from three to six months it will become converted into real manure of excellent quality.

Fifty pounds of ADCO makes a ton of manure.

ADCO is never sold in bulk. It is for sale in two sizes, viz:

ADCO, in 150-lb. bags

(Enough for a heap 10 feet by 10 feet by 6 feet, making about three tons of manure).....\$10.50 Bag

ADCO, in 25-lb. bags

(Enough for 12 wheelbarrow loads of garden waste, making one-half ton of manure).....\$2.00 Bag

KOPPERS VELVET LAWN FERTILIZER

Feeds the Grass

Starves the Weeds

KOPPERS VELVET LAWN

(Sulphate of Ammonia)

Best for Lawns, Golf Courses, Truck Gardens, Small Fruits, Orchards, House Plants, Shrubs, Shade Trees, and wherever quick, luxurious, weedless vegetation is wanted.

Sulphate of Ammonia—20 $\frac{3}{4}$ per cent readily available nitrogen. Odorless—free from weed seeds. Will not injure hands or clothing. Never lumps—stays fine and dry like sea sand. Extra-



processed—will not cake nor rot bags no matter how long you store it.

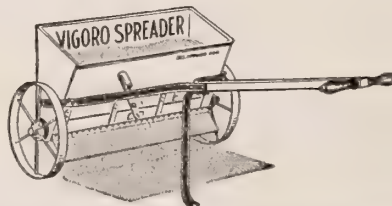
26-oz. Carton (24 to case) (each).....	\$.25
5-lb. Canister (12 to case) (each).....	.60
10-lb. Bag.....	1.15
25-lb. Bag.....	2.25
50-lb. Bag.....	3.75
100-lb. Bag.....	6.00

The New Vigoro Spreader

Now it will be an easy matter to apply Vigoro evenly and effectively. The new Vigoro Spreader shown opposite has been especially designed to apply Vigoro, grass seed, sand, and similar products evenly and quickly.

Sturdy, simple, and economical, the Vigoro Spreader fills a long-felt need. Never before has a spreader having all these qualifications been offered to the trade.

Hopper is 24 inches wide; made of 24 gauge, rust-resisting galvanized sheet steel. It holds 75 pounds of Vigoro or 25 pounds of seed mixture. **PRICE, \$12.50.**



Saves
Time
Labor
Money.
Assures
Very
Best
Results.

FLOWER SEEDS

GENERAL DIRECTIONS FOR CULTIVATION

Hardy Flower Seeds should be sown in the open, after danger of frost is past, in well-worked and moist soil. Seeds of medium size, put at depth of one-quarter to one-half inch. Very fine seeds press into the soil, and cover slightly with a little sand or sphagnum moss. If seed is not deep, water frequently. When up, transplant from two to twelve inches apart, according to variety of plants. Do not leave too thick as the plants will be weak and spindling. Keep weeds out of the flower beds. Annuals may be planted in early spring, and bloom the first season only. Biennials bloom the second year from seed, and then die. Perennials bloom the second year from seed, and plants live to bloom during successive years. Varieties marked ("A") stand for Annuals. Marked ("B") Biennials. Marked ("P") Perennials. Order by Number.

1. **ACHILLEA** (Ptarmica, "The Pearl")—A hardy perennial which bears pure, double, white flowers. If sown early and transplanted it will flower the first season or can be sown later in the open ground. **Packet, 15c.**

2. **AGERATUM MIXED (A)**.—Valuable for bedding as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or outdoors and thin to 4 to 6 inches. **Packet, 10c.**

2A. **AGERATUM**.—Dwarf Blue. **Packet, 10c.**

3. **ALYSSUM (A)**.—The Sweet Alyssum has pretty little flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season. **Packet, 10c.**

4. **ALYSSUM (A)** (Tom Thumb).—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn. **Packet, 10c.**

5. **ALYSSUM SAKATILE COMPACTUM (P)**.—Hardy. Yellow. **Pkt. 10c.**

8. **AMARANTHUS, MIXED (A)**.—Showy, blooming plants, with long, racemes of curious-looking flowers, and brilliant foliage; half hardy annuals. **Packet, 10c.**

9. **AMARANTHUS**.—Tricolor Splendens or Poinsettia. Very Rich Coloring. **Packet, 10c.**

10. **AMARANTHUS CAUDATUS** (Love Lies Bleeding) (A).—Graceful and handsome flowers of blood-red hue. **Packet, 10c.**

13. **ANTIRRHINUM**, or Snapdragon has become very popular both for forcing and outdoor growing. **Mixed, Packet, 10c.**

13A. **ANTIRRHINUM (P)**.—Ruby—Rich, velvety Ruby Red. **Packet, 10c.**

13B. **ANTIRRHINUM (P)**.—Cottage Maid—Handsome pale pink, with white throat. **Packet, 10c.**

13C. **ANTIRRHINUM (P)**.—Pink Pearl—White ground, shaded peach-blossom; lip a deeper shade. **Packet, 10c.**

13D. **ANTIRRHINUM (P)**.—Rose Pearl—Bright soft-rose; white lip and throat; lip slightly tipped yellow. **Packet, 10c.**

13E. **ANTIRRHINUM (P)**.—Ruby Rose—Fine deep salmon-rose. **Packet, 10c.**

13F. **ANTIRRHINUM (P)**.—Vermilion-Scarlet—Fine Orange-Scarlet. **Pkt. 10c.**

13G. **ANTIRRHINUM (P)**.—Delila—Grandiflora. Pink, yellow and white. **Packet, 10c.**

13H. **ANTIRRHINUM (P)**.—Majus—Mixed colors. **Packet, 10c.**

14. **ANTIRRHINUM—THE ROSE (A)**.—Rose-pink. **Packet, 10c.**

15. **ANTIRRHINUM—CANARY BIRD (A)**.—Canary yellow, golden yellow centre. **Packet, 10c.**

16. **ANTIRRHINUM—COPPER KING (A)**.—Velvety-copper scarlet. **Pkt. 10c.**

17. **ANTIRRHINUM—NYMPH (A)**.—Rosy-lilac, white tube. **Packet, 10c.**

20. **AQUILEGIA (P)**.—Long-spurred mixed. **Packet, 10c.**

21. **AQUILEGIA (P)**.—Single mixed. **Packet, 10c.**

22. **AQUILEGIA (P)**.—Double mixed. **Packet, 10c.**

23. **AQUILEGIA (P)**.—Blue Columbine. **Packet, 10c.**

ASTERS

Sow seed in March and April in cold-frame or boxes in the house, covering them ¼ inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way in prepared beds.

25. **ASTERS, CHINA (A)**.—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. **Packet, 10c.**

26. **ASTER, TRUFFAUT'S PERFECTION (A)**.—A very favorite class; upright growers; flowers large, almost round with incurved petals. **Pkt., 10c.**

27. **VICTORIA ASTER (A)**.—The most beautiful of all Asters, bearing flowers of all colors and shades. Double, four inches across; height, 15 to 18 inches. **Packet, 10c.**

28. **COMET ASTER**.—This class of Asters have long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ inches to 4½ inches in diameter, which resemble the Japanese Chrysanthemum. **Packet, 10c.**

29. **SEMPLE'S BRANCHING ASTER, MIXED (A)**.—The finest, late blooming Aster. The deep, heavy, incurved flowers on rigid stems often 2 feet and more in length, which makes it one of the most valuable varieties for cutting. **Packet, 10c.**

30. **BRANCHING ASTER (A)**.—White. **Packet, 10c.**

31. **BRANCHING ASTERS**.—Pink. **Packet, 10c.**

32. **BRANCHING ASTERS**.—Purple. **Packet, 10c.**

33. **BRANCHING ASTERS**.—Crimson. **Packet, 10c.**

34. **ASTER—PERENNIAL MIXED**—(Michaelmas Daisy)—**Packet, 10c.**

35. **ASTER**.—Sunshine or Anemone flowered, for beds or borders. 18 inches high. **Packet, 10c.**

36. **BACHELOR'S BUTTON (A)** (Centaurea Cyanus).—A very old favorite garden annual with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet. **Packet, 10c.**

36A. **CENTAUREA**.—Montana Blue. (Perennial Cornflower). Large violet-blue flowers. **Packet, 10c.**

37. **DOUBLE BALSAM, CAMELIA FLOWERED (A)** (Lady Slipper)—The well-known balsams are one of the finest summer blooming annuals, free bloomers, and highly colored. By transplanting them once or twice, the flowers are apt to be more double. **Packet, 10c.**

38. **BALSAM PERFECTION WHITE (A)**.—This resembles the mixed balsams in shape, but the flowers are a pure white, and is the variety usually grown by florists. **Packet, 10c.**



BOLTONIA (False Chamomile) plants grow 4 to 6 feet high, having daisy-like flowers.

39. **Pink**—**Packet, 10c.**

40. **White**—**Packet, 10c.**

41. **CALENDULA** (Pot Marigold) (A)—Very hardy annual, one foot high, blooming freely. Is of the easiest culture; desirable for rather inferior soils, where less sturdy flowers do not thrive. **Packet, 10c.**

42. **CALENDULA—ORANGE KING**.—Double rich orange-red. **Pkt., 10c.**

44. **CANDYTUFT, MIXED (A)**.—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering. **Packet, 10c.**

45. **CANDYTUFT—WHITE ROCKET (A)**.—**Packet, 10c.**

46. **CANDYTUFT (P)**.—White. **Pkt., 10c.**

47. **CANDYTUFT (P)**.—Lilac. **Pkt., 10c.**

48. **CANNA, MIXED** (Extra Choice) (A)—Very slow to germinate. **Pkt., 10c.**



FLOWER SEEDS

49. **CANTERBERRY BELLS, SINGLE MIXED.**—Pkt., 10c.
 50. **CANTERBERRY BELLS, DOUBLE MIXED.**—Pkt., 10c.
 50A. **CAMPANULA LONGISTYLA.**—A very attractive rock plant, bearing small single blue flowers on about twelve-inch stalk. Perennial. Packet, 10c.
 52. **CHRYSANTHEMUMS, SINGLE MIXED (A).**—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. Packet, 10c.
 53. **CHRYSANTHEMUMS FRUTESCENS (A).**—(The Marguerite, or Paris Daisy.)—Produces freely its white star-like flowers under the most favorable conditions. Packet, 10c.
 54. **CINERARIA HYBRIDA (P).**—Large flowering prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. Packet, 25c.
 55. **CINERARIA HYBRIDA DWARF (P).**—Large flowered, dwarf prize varieties; splendid strain. Packet, 25c.
 58. **COCKSCOMB (Celosia Cristata).**—A half-hardy annual, growing 6 to 8 inches high, bearing a wide, wavy blossom that resembles a cock's comb. In brilliant colors; fine for massing or border work. Packet, 10c.
 59. **COCKSCOMB (Celosia Plumosa).**—The plumes are splendid and 2 and 3 feet tall. Packet, 10c.
 61. **COWSLIP (P).**—Beautiful hardy spring flowers of different colors. Packet, 10c.
 62. **CONVOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).**—A beautiful class of hardy annuals, affording a large showy mass of flowers from July to October. Packet, 10c.



63. **CALLIOPSIS ANNUAL.**—Quick growing, free-flowering annuals, fine for bedding and make quite useful cut flowers of yellow and brown color. Sow where they are to bloom and thin out to 6 to 12 inches apart. Height 18 inches to 2 feet. Packet, 10c.
 63A. **CALLIOPSIS.**—Golden Wave.—Rich golden yellow with small chestnut-brown centre. Packet, 10c.
 64. **COREOPSIS LANCEOLATA (P).**—This is one of the finest of hardy plants, with large, showy bright golden-yellow flowers, freely produced on long stalks, from June till frost. Excellent for cutting; will thrive in almost any situation. Packet, 10c.



COSMOS. One of the very finest late summer and fall flowers; excellent cut flowers. The bushes grow tall, six to eight feet, and are loaded with large snowy blossoms, in white, pink and crimson. Sow the seed early and transplant, or later in spring where it is to remain. Hardy annual.

65. **EARLY FLOWERING (Dawn) (A).**—This early flowering strain will begin blooming as early as July and will continue until frost; flowers large. Packet, 10c.
 66. **COSMOS, Mixed (A).**—Packet, 10c. Oz., 35c.
 67. **COSMOS, Pink (A).**—Packet, 10c.
 68. **COSMOS, White (A).**—Packet, 10c.
 69. **COSMOS, Crimson (A).**—Packet, 10c.
 70. **COSMOS.**—Double crested or Anemone-flowered. A new late flowering variety, holding up well when cut. Pkt., 10c.
 73. **DAISY (P).**—Low growing plants entirely hardy. Seed may be sown early in shallow drills and later thinned out to stand one foot apart. MIXED, Packet, 10c.
 74. **DAISY, LONGFELLOW (P).**—This is a very pretty, large, double pink variety. Packet, 10c.
 75. **DAISY, SNOWBALL (P).**—An unusually large-flowered variety, and produces very double, pure white flowers. Packet, 10c.
 76. **DELPHINIUM (Hardy Perennial Larkspur).**—Sow seeds in early spring, in hot bed or shallow boxes indoors. When seedlings are about $\frac{3}{4}$ inch high, transplant to flats, three or four inches apart, each way; transferring them to open ground when weather is suitable. Seeds can also be sown in open ground, but would not be likely to bloom until second year. Packet of mixed varieties, 10c. each.
 77. **DELPHINIUM (Belladonna).**—Clear turquoise blue. Packet, 10c.
 78. **DELPHINIUM (Bellemosum).**—Rich deep blue. Packet, 10c.
 79. **DELPHINIUM (Cardinale).**—Scarlet. Packet, 10c.
 80. **EUPHORBIA HETEROPHYLLA or MEXICAN FIRE PLANT.**—Packet, 10c.
 82. **FORGET-ME-NOTS (Myosotis) (P).**—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early. Packet, 10c.
 82A. **CYNOGLOSSUM (Chinese Forget-me-Not).**—Annual, but very hardy; of deep blue color, with flowers on tall branches. Packet, 10c.

FLOWER SEEDS

83. **FOXGLOVE (DIGITALIS) (P).**—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half hardy places. **Mixed, Packet, 10c.**

84. **FOXGLOVE**—White. **Packet, 10c.**

85. **FOXGLOVE**—Rose. **Packet, 10c.**

86. **FOXGLOVE**—Purple. **Packet, 10c.**

87. **GAILLARDIA (A).**—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. **Packet, 10c.**

88. **GERANIUM (New Zonale) (A).**—A grand strain of Geraniums, containing all shades of colors. **Pkt., 10c.**

88A. **GEUM.**—Mrs. Bradshaw. A plant for rock gardens, of large double brilliant orange-scarlet flowers. **Packet, 10c.**

89. **GOMPHRENA or GLOBE AMARANTH (A).**—Flowers resemble clover heads, and can be dried and used for winter bouquets. **Packet, 10c.**

90. **GYPSOPHILA (Baby's Breath)**—Single white flowers, fine for bouquets; bloom first year if sown early. **Packet, 10c.**

91. **GYPSOPHILA.**—Repens, for Rock Garden. Rosea and white mixed. **Packet, 10c.**

92. **HELICHRYSUM.**—The colors are bright and the flowers are very attractive when dried. **Packet, 10c.**

93. **HELIOTROPE (A).**—These are deliciously fragrant flowers remaining in bloom for a long time; fine for pot culture or bedding; half-hardy annuals. **Packet, 10c.**

94. **HIBISCUS (Marshmallow)**—Showy ornamental perennial plants for mixed beds or shrubby borders; blooms first year if sown early. **Pkt., 10c.**

95. **HOLLYHOCK**—White.

96. **HOLLYHOCK**—Pink.

97. **HOLLYHOCK**—Maroon.

98. **HOLLYHOCK**—Double mixed.

99. **HOLLYHOCK**—Single mixed. **Packet, 10c each.**

100. **KOCHIA.**—Summer Cypress or Mexican Fire Bush. Cypress-like annual, with feathery-green foliage, turning to deep red in autumn. **Packet, 10c.**

102. **LARKSPUR (Annual).**—Sow seeds in open ground, before close of April, for plants to begin flowering in July, and then a continuous succession of blooms until frost. Effective for beds and fine for cut flowers. Mixed varieties. **Packet, 10c.**

103. **LARKSPUR**—Emperor—Best double varieties. **Packet, 10c.**

103A. **LARKSPUR**—Emperor. Bright rose. **Packet, 10c.**

103B. **LARKSPUR**—Emperor. Azure Blue. **Packet, 10c.**



LARKSPUR

LOBELIA

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers.

104. **MIXED VARIETIES (A).**—Pkt., 10c.

105. **CRYSTAL PALACE COMPACTA (A).**—Rich deep blue. The finest for bedding. **Packet, 10c.**

MARIGOLDS



106. **MARIGOLD, DOUBLE AFRICAN (A).**—A well-known free-flowering plant of easy culture, with rich and beautiful tall double various colored flowers. **Packet, 10c.**

107. **MARIGOLD, DOUBLE FRENCH (A).**—Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 10c.**

108. **MARIGOLD, DWARF SINGLE FRENCH**—**Packet, 10c.**

109. **MARIGOLD (Tagetes).**—Signata Pumila, for rockery. Single bright-orange. **Packet, 10c.**

109A. **MARIGOLD—Legion of Honor.**—Single dwarf golden-yellow flowers, marked with large spot of velvety-crimson at base of each petal. **Packet, 10c.**

110. **MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).**—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. **Packet, 10c.**

111. **MATRICARIA—ALBA PLENA (P).**—Double white flowers, fine for bedding. If sown early, will flower the first season.

112. **MATRICARIA—GOLDEN BALL (P).**—Plants grow about 8 in., bearing bright yellow double button-like blossoms. **Packet, 10c.**

113. **MESEMBRYANTHEMUM CHRYSANTALINUM (Ice Plant) (A).**—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. Half-hardy annuals. **Packet, 10c.**

114. **MIMULUS**—The beautiful Monkey flower. **Packet, 10c.**

115. **MIGNONETTE—SWEET (Reseda Odorata)**—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Pkt., 10c. Oz., 20c.**



NASTURTIUM

NASTURTIUMS

Sow the seed where it is to remain late in the spring and after danger of frost is over. It is seldom necessary to thin the young plants, as they will bloom if close together. Nasturtiums prefer dry, rather rocky soil, and bear their flowers in such locations in greater profusion than in a rich garden where they run too much to leaves.

117. **DWARF MIXED.**—The dwarf variety of Nasturtiums is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color, and profusion of bloom; mixed colors. **Oz., 10c.**

118. **DWARF NASTURTIUM—AURO-RA.**—Blush white and salmon, blotched with garnet. **Oz., 15c.**

119. **DWARF NASTURTIUM BEAUTY.**—Bright scarlet striped with yellow. **Oz., 15c.**

120. **DWARF NASTURTIUM (Empress of India).**—Very dark foliage with deep crimson flowers. **Oz., 15c.**

121. **DWARF NASTURTIUM (Golden King).**—Brilliant yellow. **Oz., 15c.**

122. **DWARF NASTURTIUM (King of Tom Thumb).**—Brilliant yellow flowers blotched with maroon. **Oz., 15c.**

123. **DWARF NASTURTIUM (Ruby King).**—Light ruby red. **Oz., 15c.**

124. **DWARF NASTURTIUM (Cloth of Gold).**—Golden yellow foliage, light scarlet flowers. **Oz., 15c.**

125. **KING THEODORE—DWARF**—Rich red. Black-brown foliage. **Oz., 15c.**

126. **TALL or CLIMBING NASTURTIUM.**—Of quick growth, covering a wall, hedge or trellis in a short time. The seed pods can be gathered while green and tender for pickling. **Oz., 10c.**

OXALIS

128. Pretty little, half-trailing annuals for hanging baskets. Mixed annual sorts. **Packet, 10c.**

FLOWER SEEDS

PANSIES

Thrive best in a moist, shady location, and in rich loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers late in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again in the open garden.

129. HEARTSEASE.—Mixed. An old but universally admired plant, producing an endless variety of color. They may be treated as annuals. **Packet, 10c.**

130. GIANT TRIMARDEAU.—Remarkable for the extra large size of the flower and an endless variety of beautiful shades. **Packet, 10c.**

131. G. & T. CO.'S EXTRA MIXED.—This mixture, containing the finest varieties. **Packet, 15c.**

PETUNIAS

Petunias grow with little attention or care and in any soil when once started and bloom profusely all spring and summer.

132. ROSY MORN.—**Packet, 10c.**

132A. PETUNIA.—Balcony, free-flowing. Mixed varieties. For window boxes, hanging baskets or vases. **Packet, 15c.**

133. FINE MIXED.—Good mixture of small, free-blooming colors. **Pkt., 10c.**

134. PETUNIA.—Double fringed and plain edge varieties. Large flowering. Mixed. **Packet, 25c.**

135. PETUNIA, Single.—Fringed, mixed. Extra choice. **Packet, 25c.**

136. PHLOX DRUMMONDII (A).—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil. **Packet, 10c.**

137. PHLOX DRUMMONDII—Nana Compacta).—(A).—Very fine mixed. This new strain is of dwarf compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. **Packet, 10c.**

138. PHLOX (Hardy Perennial).—For best results, should be sown as soon as frost is out of the ground in spring or as soon as gathered in the autumn. **Packet, 10c.**

141. PINK CARNATION, or PICOTEE.—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Packet, 10c.**



PANSIES

142. PINK CARNATION (Riviera Market, or Gillaud.)—This is the only variety that will produce flowers the first season. They will thrive either in open ground or in pots. **Packet, 25c.**

143. PINK CARNATION (Marguerite) (P).—Will produce flowers in a few weeks from seed and bloom all summer until frost or indoors in winter. **Packet, 10c.**

144. PINK—CHINA (Dianthus Chinensis) (P).—Free bloomers, and a general favorite for bouquets, also a useful bedding plant. **Packet, 10c.**

145. POPPY (A).—Alpine Poppy. Single fine mixed. For pots and rockeries. **Packet, 10c.**

147. POPPY—CARNATION (Papaver) (A).—A showy and easily cultivated hardy annual, with large, brilliant colored flowers, growing freely in any garden soil. **Packet, 10c.**

148. POPPY-PEONY FLOWERED (A).—A magnificent species, large, showy, globule flowers, resembling Peonies in shape. **Packet, 10c.**

149. SHIRLEY POPPY (A).—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Pkt., 10c.**

150. TULIP POPPY (A).—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 10c.**

151. ICELAND POPPIES, MIXED (P).—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. **Pkt., 10c.**

152. ESCHSCHOLTZIA (California Poppy) (A).—A bright and handsome flower. Grows easily and will re-seed itself. **Packet, 10c.**

153. ORIENTALE.—The large Oriental Poppy. A hardy plant, bearing large, brilliant crimson flowers with black blotch on each petal. **Packet, 10c.**

155. PORTULACA (Mexican Rose) (A).—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light, loam or sandy soil; fine for massing in beds or edgings of rock work. **Pkt. 10c.**

156. DOUBLE PORTULACA (A).—**Packet, 10c.**

157. PYRETHRUM (Hybridum).—Single. A perennial resembling daisies, in varieties of colors. Will succeed best in sunny location, and allowed to remain in same place for several years. Mixed varieties. **Packet, 10c.**

158. RICINUS, CAMBOGIENSIS (A).—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half hardy annuals. **Packet, 10c.**

159. RICINUS ZANZIBARIENSIS, MIXED (A).—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 10c.**

160. SCABIOSA (Mourning Bride) (P).—especially adapted for cutting and massing. Flowers are double clear to the center, covering the thimble-shaped cone. Height 2½ ft. **Pkt., 10c.**

161. SCABIOSA (Caucasia)—Hardy perennial. Lilac. **Packet, 10c.**

162. SCABIOSA (Caucasia)—Hardy perennial. White. **Packet, 10c.**

163. SALVIA SPLENDENS (A).—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half hardy perennial, blooming the first year from seed. Three feet. **Packet, 10c.**

163A. SALPIGLOSSIS (Velvet Flower) (A).—Large funnel-shaped flower of varied colors. Start seed indoors in boxes. **Packet, 10c.**

164. SENSITIVE PLANT (Mimosa)—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. **Packet, 10c.**

164A. SCUTELLARIA (Skull Cap)—Short wiry stems, clothed with clear-blue snapdragon-like flowers. 1 foot. June to August. **Packet, 10c.**

165. SHASTA DAISY—Alaska—A splendid hardy perennial variety, with flowers of the purest glistening white. **Packet, 10c.**

166. STOKESIA (Cornflower or Stoke's Astor)—Is of easy culture and one of the most desirable plants for the hardy border, and also for cutting. **Pkt., 10c.**

167. TEN WEEKS STOCKS (Gilliflower).—A world wide favorite, brilliant and varied in color, equally well adapted for massing, bedding, edging or pot culture. Should be grown in rich soil. **Packet, 10c.**

168. STOCKS—SNOWFLAKE IMPROVED—A beautiful dwarf-growing variety; very large, double snow-white flowers. **Packet, 10c.**

171. SWEET VIOLET—Although these flowers do best propagated from cuttings, they grow readily from seed, and have a very fragrant blossom. **Packet, 10c.**

172. SWEET WILLIAM (Dianthus Barbatus) (P).—A well-known, free flowering, popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. **Packet, 10c.**

173. VERBENA (A).—One of the most popular and useful bedding plants. Verbenas delight in sunny situations, rich soil and thorough cultivation. **Packet, 10c.**

173A. VERBENA—Venosa.—Heliotrope-purple. For rockery. **Packet, 10c.**

174. VINCA (Madagascar Periwinkle) (A).—Rosea—Rose with dark eye. **Packet, 10c.**

175. VINCA (Madagascar Periwinkle) (A).—Rosea Alba—White with rose centre. **Packet, 10c.**

176. WALLFLOWER, DOUBLE—Well-known, deliciously fragrant plants, with large spikes of double flowers similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. **Packet, 10c.**

177. CHINESE WOOLFLOWER—Brilliant crimson flowers, like balls of silky wool, that can be cut and dried. **Packet, 10c.**



Salvia Splendens.

FLOWER SEEDS **ZINNIAS**



**GIANT
DAHLIA-
FLOWERED
ZINNIA**

Zinnias have become very popular for gardens, both large and small. Their attractiveness and profusion of bloom make them most valuable for the outside, or, for cut flowers, lasting well when cut.

Will grow well in any fair soil, from July until frost. Can be used for beds or borders, as plants range from 2½ to 3 feet high, and the mass of varied colors will attract attention everywhere. The varieties here offered are all California grown.

GOLD MEDAL DAHLIA-FLOWERED ZINNIAS

The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. It is easily grown, and keeps well when cut. Equally good as a garden flower or a florists' specialty.

178. **OLD ROSE.**—Of real old rose shade. Large and noted for its charm and beauty. Packet, 10c.

179. **GOLDEN STATE.**—A very rich orange yellow. In bud, yellow and turning to an attractive orange when in full bloom. Packet, 10c.

180. **LEMON BEAUTY.**—Golden yellow on brown, a decidedly pastel shade. Packet, 10c.

181. **PURPLE PRINCE.**—A fine deep purple, large and well formed. Packet, 10c.

182. **POLAR BEAR.**—A very large pure white, of true Dahlia form. Packet, 10c.

183. **SPECIAL GOLD MEDAL MIXTURE.**—A well-blended mixture, with a variety of colors, well blended. Packet, 10c.

184. **ZINNIA, ELEGANS — GRANDIFLORA ROBUSTA** (Youth and Old Age) (A).—This is one of the most brilliant of annuals, has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 10c.

185. **ZINNIAS CURLED AND CRESTED (A).**—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful turns. A magnificent variety of colors. Packet, 10c.

186. **ZINNIA—DOUBLE POMPON (A).**—Long, coneshaped flowers, very fine. Packet, 10c.

187. **ZINNIA—CRIMSON** (Half Dwarf).—Packet, 10c.

188. **ZINNIA—WHITE** (Half Dwarf).—Packet, 10c.

189. **ZINNIA—LILLIPUT** (Canary Yellow).—Packet, 10c.

190. **ZINNIA — CRIMSON MONARCH.**—Largest of Red Shades. Packet, 10c.

THE ROCK GARDEN

A few square yards of ground can be sufficient for a variety of plants and make a pleasing addition to your garden.

Build it so as to get proper drainage and to support the plants between the rocks.

Select your location in an open sunny place or partially shady, according to variety of plants desired and be sure ground is well drained.

Use stones of good size in building and small stones for filling in and to hold in place, so as to keep soil from washing during rain or when watering.

The plants should be placed in pockets between rocks, having soil very firm around roots of plants.

FOR ROCK GARDEN PLANTING

Achillea, The Pearl
 Alyssum, Yellow
 Aquilegia (Rocky Mountain Blue)
 Aquilegia, Long Spurred
 Candytuft, Semperviviens, White
 Candytuft, Lilac
 Gypsophila, Repens, White
 Centaurea, Montana Blue

Convolvulus Mauritanicus
 Geum, Mrs. Bradshaw
 Scutellaria, Celestine
 Verbena Venosa
 Campanula, Longistyla
 Cowslip
 Balcony Petunia
 Rosy Morn Petunia
 Alpine Poppy

POPULAR ANNUALS

Alyssum, Sweet
 Alyssum, Tom Thumb
 Aster
 Antirrhinum (Snap-Dragon)
 Bachelor's Button
 Cockscomb (Half-hardy)
 Calliopsis
 Cosmos
 Gaillardia
 Strawflower
 Heliotrope (Half-hardy)
 Marigold
 Four-O'-Clock

Mignonette
 Nasturtium
 Fanny
 Petunia
 Phlox Drummondii
 Pinks
 Poppy (Some varieties)
 Portulaca
 Scarlet Sage
 Verbena
 Vinca
 Zinnia
 Sweet Peas

PERENNIALS (Hardy)

Achillea, The Pearl
 Alyssum, Yellow
 Ampelopsis Veitchii
 Aquilegia (Some varieties)
 Antirrhinum (Some varieties)
 Cobea Scandens
 Coreopsis Lanceolata
 Delphinium
 Foxglove
 Gypsophila
 Hibiscus
 Hollyhock
 Kudzi Vine

Marigold Tagates
 Matricaria
 Phlox Decussata
 Pyrethrum Roseum
 Oriental Poppy
 Iceland Poppy
 Scabiosa Caucasica
 Stokesia
 Sweet William
 Wallflower
 Lathyrus Latifolius
 (Sweet Peas)

FLOWER SEEDS

GENERAL LIST OF CLIMBERS

200. **AMPELOPSIS VEITCHII** (Boston Ivy)—Dark green leaves, turning to coppery red. Packet, 10c.

201. **BALSAM APPLE** (A).—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 10c.

202. **BALLOON VINE** (Love in a Puff) (A).—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 10c.

203. **CANARY BIRD FLOWER** (Peregrinum).—A tender climbing annual of the nasturtium family. Blossoms have curiously wrinkled petals and are light yellow. Soak seed over night before planting. Packet, 10c.

204. **COBEA SCANDENS** (P)—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c.

205. **CYPRESS VINE, RED** (Ipomea Quamoclit) (A).—One of our most popular vines, with very delicate, fern-like foliage and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 10c.

206. **CYPRESS VINE, WHITE** (A).—Usually grown with the red, making a handsome effect. Packet, 10c.

207. **HEAVENLY BLUE IPOMEA** (A).—The flowers are in large, airy clusters, and that lovely hue so rarely seen. Flowers four to five inches across. Packet, 10c.

208. **MORNING GLORY** (Convolvulus Major)—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 10c.

209. **GIANT JAPANESE MORNING GLORY**.—These are by far the handsomest of the Morning-Glories, of gigantic size. Packet, 10c.

210A. **CONVOLVULUS MAURITANICUS**.—Lavender Blue, for rock work. Packet, 10c.

210. **MOON FLOWER** (Ipomea Noctiflora)—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. Packet, 10c.

211. **SCARLET RUNNERS**.—Very handsome climbing Beans, with bright scarlet flowers. Packet, 10c.

212. **JAPANESE KUDZU VINE** (P).—Hardy growing climbing plant, with large foliage and rosy-purple pea-shaped blossoms, blooming in August. Packet, 10c.

213. **HYACINTH BEAN** (Dolichos) (A).—Climber of quick growth, with Bean-like flowers. Packet, 10c.

215. **MIXED GOURD** (Cucurbita) (A)—Packet, 10c.

216. **NEST EGG GOURD** (A)—White fruit shaped like an egg. Used as a substitute for nest eggs. Packet, 10c.

217. **DISHCLOTH GOURD**.—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part is left. Packet, 10c.

218. **DIPPER GOURD** (A)—Makes an excellent dipper. Packet, 10c.

219. **MOCK ORANGE** (P)—Fruit shaped like an orange. Packet, 10c.

220. **CALABASH OR PIPE GOURD**.—Odd shaped fruit, which is used to advantage in making pipes. Packet, 10c.

ORNAMENTAL GOURDS



SWEET PEAS

SWEET PEAS should be sown in drills latter part of November for fall planting, or as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow four to six inches deep.

In this sow the seed and cover two inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer.

The roots should not be allowed to become too dry. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening, is usually better than light sprinkling more frequently.

224. **G. & T. CO'S EXTRA FINE MIXED**—Consists of the very choicest varieties mixed in the newest colors and shades.

Oz., 10c.; ¼ lb., 25c.; ½ lb., 40c.; lb., 75c. Postage, extra.

225. **SUPERB SPENCER MIXTURE**—This group includes the largest and most beautifully formed sweet peas. The Spencers have very large waved flowers which are produced abundantly on long, strong stems, making the blossoms most desirable for cutting.

Per oz., 15c.; ¼ lb., 50c.; 1 lb., \$1.50. Postage, extra.

NEW VARIETIES—Late Flowering

226. **GOOD CHEER**—Lovely shade of deep Begonia Rose, both standard and wings being alike in color. Excellent for garden and cut flowers. Does not fade in the sun. Packet, 25c.

227. **CELEBRITY**—Vigorous-growing of Orange color. Large flowers on long stems. Uniform color in standard and wings. Packet, 25c.

228. **CONQUEROR**—Large clear glowing cherry-cerise. Standard and wings alike in brightness and color, which suggests a brilliant scarlet-red shade. Packet, 25c.

229. **EOSINE**—A beautiful tone of Pink, with a soft flushing of salmon. Unusually large flower on stout stems. Good for exhibitors and garden decoration. Packet, 25c.

230. **PERENNIAL SWEET PEAS** (Lathyrus Latifolius).—Mixed. Packet, 10c.



SUPER GLADIOLUS

Postage 10c. dozen extra.

Gladiolus are the most attractive and useful for cut flowers of all the summer flowering bulbs.

Plantings each ten days from April to mid-June, will provide flowers from August to October.

For garden and exhibition purposes.

CARMEN SYLVA—Pure White. Splendid for garden and cut flowers. 10c. each.

DR. F. E. BENNETT—Peach red with suggestion of flame scarlet. Throat creamy-white, speckled ruby red. Huge flowers. 15c. each.

HENRY FORD—Royal Rhodamine purple, shading deeper towards center. Huge flowers. 10c. each.

MRS. F. PENDLETON—Bright rose with crimson scarlet blotches on lower petals. Good for forcing. 8c. each.

MRS. H. E. BOTHKIN—A ruffled type, with color of soft-salmon pink, with fine scarlet blotch, tempered by the ground color. 8c. each.

MRS. LEON DOUGLAS—Begonia rose with flecks of flame scarlet. Lower petal tinted lemon with specks of ruby red. 10c. each.

ROSE ASH—A subdued rose red overlaid with grey, producing a hue called "Ashes of Roses." Shaded yellow in throat, with ruby red speckles. 8c. each.

ROSE PRECOSE—Early. Double row of deep rose flowers, with faint salmon shading; a gorgeous tint, developing darker streaks and mottling, if left on stalk. 10c. each.

SELECT GLADIOLUS

6c. Each; 60c. Dozen; \$3.50 per 100.

AMERICA—The color is a very beautiful soft pink.

AUGUSTA—A lovely and useful variety, pure white with blue anthers.

BLUE JAY—Porcelain blue.

CRIMSON GLOW—Crimson. Tall grower. Eight to ten flowers.

EVELYN KIRKLAND—Color, salmon-pink. Tall grower, with eight to ten flowers on a stalk. 100 per cent Gladioli.

GRETCHEN ZANG—Soft shade of pink, blending into scarlet on lower petals. Large, heavy blooms.

HALLEY—Predominating color, delicate salmon pink, with slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center.

HORATIO or LOUISE—Lavender.

LE MARCHAL FOCH—Rose-pink, resembling America in color but deeper. Blooms same time as the Halley.

LILY WHITE—Pure white and very early forcer.

MAIDEN'S BLUSH—Early flowering; apricot pink.

MRS. FRANCIS KING—Long, strong stalks, bearing flowers of vermilion-scarlet color.

MRS. DR. NORTON—Pure, soft white, with tips of petals suffused La France Pink.

ORANGE QUEEN—Newest and finest Gladioli. Color true orange.

PANAMA—An improved American, largest and most notable spike of bloom among all pink sorts.

PEACE—Immense, pure white flowers, with touch of carmine in lower petals. These are borne on tall, graceful spikes; a beautiful variety.

ROSE, 1910—Early. Rose color, with white vein through center of petal.

SHAYLOR—Pure deep pink. Large flowers on tall stems.

SCHWABEN—Clear canary yellow, shading to soft sulphur. Largest of flowering stalks and leaves of all. Planted 7 or 8 inches apart in rich soil produces wonderful blooms.

WILBRINK—A favorite forcing variety for cutting. Early-flowering, color delicate pink.

GLADIOLUS

NURSERY DEPARTMENT

ALL STANDARD VARIETIES OF THE FOLLOWING

Two-Year-Old Stock

Apples	at \$1.25 each
Crab Apples.....	at 1.25 each
Cherry	at 1.50 each
Plum	at 1.00 each
Pear	at 1.25 each
Peach	at .75 each
Grape Vines.....	at .40 each
Gooseberry	at .40 each
Blackberry	at \$.15 each, \$1.25 per dozen
Raspberry	at .15 each, 1.25 per dozen

If small fruits are wanted by mail, add 15c. extra for dozen lots. One or more, separately, 10c. extra.

CALADIUMS ELEPHANT EAR

The Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil. Plant where it will obtain plenty of water and an abundance of rich compost.

SMALL SIZES (5 to 7 inches)—Each, 5c.; dozen, 50c.

FIRST SIZE BULBS (7 and 9 inches)—Each, 7c.; dozen, 75c.

LARGE BULBS (9 and 11 inches)—Each, 10c.; dozen, \$1.00.

EXTRA LARGE BULBS (11 inches and upwards)—Each, 15c.; dozen, \$1.75.

If by mail, add single bulbs, 5c.; dozen, 15c.

TUBEROSES

One of the most fragrant and popular of the summer flowering bulbs. May be started early in hot-beds or pots, or planted in open ground after the first of May.

EXCELSIOR PEARL—Double white; dwarf. Each, 5c.; dozen, 50c.; per 100, \$4.00. If by mail, add, dozen, 10c.

SHRUBBERY

BARBERRY THUNBERGI—2 year transplanted, 18 to 24 inches. Price, 35c. each; \$3.00 per 10; \$25.00 per 100.

CALIFORNIA PRIVET—2 year, 18 to 24 inches. Price, 10c. each; \$6.00 per 100.

ALTHEA—Double rose red, double red, double white, double white with cherry center. 3 to 4 feet. Price, 75c. each.

HONEYSUCKLE—18 to 24 inches. 30c. each.

HYDRANGEA—Hills of snow. White. June to August. 2 to 3 feet. \$1.00 each.

HYDRANGEA—Paniculata Grandiflora—Very showy. August, 2 to 3 feet. \$1.00 each.

LILACS—French budded, in colors of reddish purple, rosy-lilac, rosy-carmine, white. 2 to 3 feet. \$1.00 each.

WEIGELIA—Red-flowering. 3 to 4 feet. 75c. each. (Blooms in July and August).

WEIGELIA—Pink-flowering. 3 to 4 feet. 50c. each. (Blooms in June).

FLOWERING PEACH—4 to 5 feet. \$1.00 each.

HARDY VINES

AMPELOPSIS VEITCHII or BOSTON IVY—75c. each.

AMPELOPSIS QUINQUEFOLIA—Virginia Creeper. 75c. each.

CLEMATIS—White. \$1.25 each. Purple. \$1.25 each.

JASMINE—White. 75c. each.

PERIWINKLE—Blue-flowering. 75c. each.

WISTERIA—Purple. 75c. each.

ROSES

G. & T.'s Preferred Dozen Standard Collection

Profuse Blooming 2-year-old Budded Hardy Hybrid Teas.

For permanence and hardness this list can not be excelled. If desired for early planting, we furnish strong, field grown 2-year-old plants which have not been potted but delivered in lots of 10 of a kind in their dormant stage. Later, our plants are potted in 5½ and 6-inch pots during January, ready for delivery about May 1st with full root action and growth started. This permits late planting and early bloom without loss.

RADIANCE—Plants of wonderful foliage and vigor, constantly producing large, brilliant rose-pink blooms of excellent globular shape and intense fragrance. There are probably more Radiance Roses grown and planted than any dozen other varieties put together.

RED RADIANCE—A bright rose-red form of Radiance with the same good habit and blooming qualities.

SOUV. de CLAUDIUS PERNET—The old standby for a real yellow rose.

MRS. AARON WARD—Low bushy plants with pointed, holly-like foliage and fine fawn-colored buds and open blooms. Has been popular for many years and is still in great demand.

MARGARET MCGREDY—The first time in three generations of the House of McGredy that a rose was thought good enough to be named for a member of that Rose aristocratic family. Much was expected of this rose, and it won everywhere with flying colors. Brilliant red petals on hinges of deep gold. Buds upright. Seldom out of bloom.

ETOILE de FRANCE—Bushy plants with large, dark crimson blooms. Has long been popular and in great demand.

Mme. EDOUARD HERRIOT—The original of all bright orange-pink varieties and still one of the best. Deserves its wide popularity.

BETTY UPRICHARD—One of the finest new roses, with brilliant copper-red buds and semi-double, salmon-pink flowers stained with copper-pink on the outside. It is a profuse bloomer and one of the outstanding varieties grown.

Mme. JULES BOUCHE—Bushy, erect plants with medium-sized, well-shaped white flowers, lightly tinted with pink at the center, produced abundantly throughout the season. This is the most dependable white Rose for bedding purposes.

Mme. BUTTERFLY—The finest Rose of the Ophelia type, bright light pink, shaded with gold. Very popular and always in demand.

DUCHESS OF WELLINGTON—A low-spreading but vigorous grower with long saffron-yellow buds opening to very large light yellow flowers. Always popular and reliable.

FRANCIS SCOTT KEY—Giant, wonderfully shaped, extremely double flowers of brilliant crimson. Especially fine in dry seasons and late in the Autumn. Very fragrant.

Any of the above Roses \$1.25 each. \$12.00 per dozen.

WE DO NOT SHIP ROSES IN VIRGINIA

G. & T.'s Special Selection of Three Outstanding Tea Roses

ETOILE DE HOLLANDE.....Each \$1.50

The finest dark red Rose for general purposes, having great vigor and floriferousness. Its gigantic flowers are velvety crimson and are produced with great freedom throughout the season. This is unquestionably the best and most popular red Hybrid Tea Rose in the World.

PRESIDENT HERBERT HOOVER.....Each \$2.25

A glorious rose, wonderfully free in the easy manner in which it grows and charming in its color arrangement which is a splendid combination of cerise-pink, flame, scarlet and yellow. This combination of colors gives the most dazzling color effect imaginable. The buds are beautifully pointed, the flowers large, composed of broad, thick, heavy petals, with an exquisite fragrance. It is exceptionally free flowering and everyone will be delighted with its habit of growth. Awarded the GOLD MEDAL at the International Flower Show in New York, 1929.

TALISMAN.....Each \$1.75

The most astounding novelty in Roses produced in many a year. Its brilliant orange-red buds open to a large, fragrant, high pointed bloom of glowing golden yellow stained with copper-red and orange-rose on the inside of the petal. It is the most magnificently colored flower we have ever seen and arouses admiration everywhere. The plants are vigorous and healthy out of doors and will stand severe winters unprotected. Especially good in Spring and late Autumn.

G. & T.'s Hardy Climbing and Rambler Roses

Climbing roses require no pruning in the Spring except to cut out the old and dead wood and shortening of the long canes to keep them in bounds. However, a good pruning in July after blooming, is beneficial. Cutting away the old flowering wood will stimulate growth and result in better blooms the following season.

AMERICAN PILLAR.....Each \$1.00

A single flowering variety of great beauty. Flowers large brilliant pink with white eye, borne in enormous clusters and when in bloom is a sight not easily forgotten.

DOROTHY PERKINS.....Each \$1.00

Soft shell-pink flowering in clusters of great abundance. Fragrant and lasting. One of the best and most popular varieties.

DR. W. VAN FLEET.....Each \$1.00

Large flowers of exquisite pale pink on fine, long stems. Extremely vigorous with beautiful foliage. Splendid for cutting.

CRIMSON RAMBLER.....Each \$1.00

The old favorite. Large heads of very gay, small, scarlet-crimson flowers. Ideal for large specimen bushes or hedges.

PRIMROSE.....Each \$1.75

The NEW YELLOW RAMBLER; something long sought for and now a realization. Perfectly hardy, with double canary-yellow flowers borne in trusses of from 2 to 5 on long stems, 2 to 2½ inches in diameter. A vigorous climber and free flowering in mid-season. Dark green foliage.

G. & T.'s Dwarf Polyantha or "Baby" Roses

Popular for Bedding purposes. Shapely, compact, bushy plants growing about 18 inches high and bearing in profusion from early Summer to Frost, large trusses of small flowers. Pruning is not necessary. Allow plants to grow and spread naturally. Remove old flower stems.

CECILE BRUNNER (Sweetheart)—Small, perfectly formed pink and gold buds and flowers like tiny Tea Roses. Very popular and always in demand.

CHATELON ROSE—Vivid light salmon-pink semi-double flowers in enormous heads. The color lasts well and not unsightly when faded. Extremely hardy and splendid for massing and in borders.

ORLEANS—The most popular of light red sorts in many years. Flowers small, fairly double and brilliant light red. Blooms continuously in large, compact clusters. Excellent for massing. Clusters should be removed as they fade.

GRUSS AN AACHEN—Large flowers like Hybrid Teas. Orange-pink in bud, paling to soft salmon-pink and white on opening. This is one of the most remarkable Roses in the World and unrivalled for mass bedding or edging. Continually in flower and suffers from no disease.

IDEAL—The finest dark red; darker, more even color than Miss Edith Cavell. Flowers small and in gigantic clusters.

Any of the above, \$1.00 each or \$10.00 per dozen.

WE DO NOT SHIP ROSES IN VIRGINIA

G. & T's Hardy Select Perennials

Time of Bloom									Time of Bloom								
Name	April	May	June	July	August	September	October	Height In.	Name	April	May	June	July	August	September	October	Height In.
*Achillea (Milfoil)			X	X	X	X		18	Papaver Orientale (Oriental Poppy)			X					36
Agrostemma (Lychnis Coronaria) Campion			X	X	X	X		24	Nudicaule (Iceland Poppy)			X	X	X	X		12
*Ajuga (Bugle)		X	X					6	Pentstemon (Beard Tongue) various			X	X				12
*Alyssum Saxatile Compactum (Goldentuft)		X	X					12	*Pinks, Hardy		X	X					12
Anchusa (Bugloss)		X	X	X				4	Physalis (Chinese Lantern Plant)					X			24
*Anemone (Windflower) various									Physostegia (False Dragon Head)				X	X			42
*Aquilegia (Columbine) assorted Hybrids		X	X					30	*Phlox Subulata (Moss or Mountain Pink)		X	X					6
*Arabis Alpina (Rockcress)	X	X						6	Divaricata Blue	X	X						12
*Artemisia lactiflora (White Mugwort)					X	X		40	Hardy, various. Named Varieties								
Asters, Hardy (fall flowering)					X	X	X	30	Platycodon (Balloon Flower)		X	X	X	X	X	X	24
Asters, various									Polygonum (Knot-weed)					X	X		18
*Bellis (Double English Daisy)	X							3	*Polemonium (Jacob's Ladder)			X	X				12
Campanula (Canterbury Bells) various									*Potentilla (Cinquefoil)			X	X	X			18
*Glomerata (Clustered Bellflower)			X	X	X			18	*Primula various								
Persicifolia		X	X	X				30	Pyrethrum (Painted Daisy)			X					24
Pyramidalis (Chimney Bellflower)					X			60	Rudbeckia (Cone Flower) various				X	X	X	X	48
Centaurea Montana (Hardy Corn Flower)				X	X	X		24	*Saxifraga (Megasea)	X	X	X					12
Chrysanthemums, various									Scabiosa (Blue Bonnet)				X	X	X	X	24
Coreanum (Korean)							X	36	*Sedum (Stonewort) various								
Coreopsis lanceolata								24	*Statice (Great Sea Lavender)				X	X			24
Rosea						X	X	12	Stokesia (Corn Flower) (Stokes Aster)				X	X			18
Delphiniums (Hardy Larkspur) Hybrids			X	X	X	X		40	*Thalictrum (Meadow Rue) various								
Large Plants 50c. to \$1.00									Tritoma (Kniphofia) Red-hot-poker					X	X		36
Dianthus (Sweet William) various		X	X	X				24	*Trollius (Globe Flower)			X	X	X			18
Dictamnus (Gasplant)			X	X				36	*Viola, Jersey Gem			X	X	X	X		7
Digitalis (Foxglove)			X	X				30	*Vinca (Periwinkle)	X	X	X					6
Doronicum (Leopard's Bane)		X	X					24	Hollyhocks, various, double and single				X	X	X		84
*Eryngium alpinum (Sea Holly)				X	X	X	X	24									
Funkia (Plantain Lily)					X			18									
Gaillardia (Blanket Flower)			X	X	X	X	X	24									
Grasses Ornamentalis (Price on request)																	
*Geum (Avens)	X	X	X	X	X	X	X	16									
Gypsophila (Baby's Breath) various																	
Bristol Fairy \$1.00				X	X	X		24									
*Paniculata Flore Plena				X	X			30									
Heather (Heath) various																	
Helenium (Sneezeweed) Riverton Jem, etc.						X	X	36									
Helianthus multiflorus (Hardy Sunflower)						X		48									
Hemerocallis (Day Lily)			X	X				36									
*Iris																	
Sibirica (Siberian Iris)			X					48									
Germanica (German Iris)			X					24									
Kaempferi (Japanese Iris)			X	X				36									
Iberis (Hardy Candytuft) various	X	X	X					18									
Liatris (Gayfeather)				X	X			60									
*Linum (Flax)			X	X	X			18									
Lobelia (Cardinal Flower)					X	X	X	24									
Lupinus polyphyllus (Lupine)		X	X					36									
Lychnis (Ragged Robin)		X	X	X	X	X		18									
*Myosotis (Forget-me-not)		X	X					6									
Oenothera (Evening Primrose)			X	X	X			18									

Price 35c. each, or \$3.00 per dozen, where not priced,

Special Prices in 100 Lots.

Plants marked * suitable for Rock Gardens, as well as Decorative uses. All plants subject to season's conditions and stock being unsold. A large assortment of plants not listed may be had at short notice and at reasonable prices.

How to Plant and Care for Perennials

The secret of success with Perennials is an enriched soil with good cultivation and careful watering.

Groups of three or more of a variety will produce the best effect in a border, using as a rule the taller growing varieties as a background. If planting near Shrubs which will rob the bed of nourishment, keep about three feet away.

Plant in Spring or early Fall, providing Winter protection for late plantings, especially Anemones, Campanula, Digitalis, Hollyhocks, Chrysanthemums, Stokesia and Tritoma.

Dig beds at least 12 to 18 inches deep and where possible work in a liberal supply of well-rotted manure. Heavy soils can be improved by the addition of Peat Moss and light soils will retain a greater supply of moisture. Sheep manure and Bone Meal are excellent fertilizers.

After ground is frozen apply a mulch of tobacco stems, strawy manure, oak leaves or any good light litter. This will prevent alternate thawing and freezing which always causes damage.

Bed Preparation

Small suburban homes are greatly handicapped owing to the scarcity and high price of well-rotted manure, and enriched soil, with the result that their efforts meet with small success, through no fault of their own. Experiments have shown that this may be overcome through heavy applications of Peat Moss, combined with soil sheep manure, bone meal and muriate of potash.

Culture of Roses

Roses prefer a rather heavy soil and sunny exposure, though a location giving some shade during the heat of the day is ideal. However, any ordinary soil well worked-up with well-rotted stable manure and bone meal will grow Roses, providing there is good drainage. Roses do not like wet feet. The beds should be dug to a depth of at least eighteen inches and deeper if possible.

Set plants two feet apart (narrow beds are best) and two inches deeper than the graft. Fill hole half full then fill with water to settle dirt around roots and prevent air pockets. Allow water to drain, then fill with dirt and cover with light mulch of Peat Moss, or well-rotted manure. Top dress with bone meal Spring, Summer and Autumn.

To combat insects use a force spray of water on clear mornings adding from time to time soap suds and Black Leaf 40. For Mildew, dust with Sulphur on clear mornings when dew is on foliage. Black Leaf Spot can be controlled with Bordeaux Mixture or Kaylox. Excellent for a first spray in the Spring.

CANNAS

POTTED PLANTS ONLY

From 3 in. pots, and ready about May 1st to 15th, when all danger of frost is past. All are, of course, subject to outturn of crop.

Prices, except where otherwise noted, 20c. each—\$2.00 per dozen. Add 10c. for 1 to 5 plants for postage.

For best results the beds should be spaded deeply and a liberal amount of sheep manure or soft ground bone dug in.

CITY OF PORTLAND—Beautiful glowing pink, green foliage. 3½ feet. 25c. each, \$2.50 per dozen.

EUREKA—Flowers of creamy white with rich green foliage. 4 feet.

FLORENCE VAUGHAN—The flowers are yellow spotted with scarlet and produced freely. 5 feet.

GLADIATOR—Strong, vigorous grower, with fine green foliage; flowers yellow spotted with red. 4½ ft.

HUNGARIA—A beautiful clear rose, about 3½ feet high.

INDIANA—Four feet. Color is a glistening orange daintily marred and striped with red.

KING HUMBERT—The finest type of orange scarlet flowers combined with the finest type of bronze foliage. 25c. each, \$2.50 per dozen. 4 feet.

KING MIDAS—Clear yellow. Same type as President. 4 feet. \$1.00 each.

MRS. PIERRE S. DUPONT—A remarkable fine Canna in every respect. Color—attractive watermelon pink. \$1.50 each, \$15.00 per dozen. 4 feet.

PENNSYLVANIA—Six feet. Hybrid orchid-flowering. Pure deep scarlet.

PRESIDENT—Brilliant red with green foliage. 4 feet. 25c. each, \$2.50 per dozen.

RICHARD WALLACE—Green foliage, large canary yellow flowers. 4½ feet.

RUBIN—Bright scarlet flowers, dark foliage. 4 feet.

VENUS—A gay rosy-pink with border of creamy yellow; green foliage. Four feet.

WILMER ATKINSON—Bright clear yellow, flowers produced in great profusion; the foliage is a beautiful green. 4 feet. \$1.50 each, \$15.00 per dozen.

WYOMING—Orange-scarlet flowers; dark foliage. 4½ ft.

FOLIAGE CANNAS

with bronze leaf, but do not bloom. Dormant roots at 6c. each; 60c. per dozen. By post, 10c. per dozen extra.

MIXED CANNA ROOTS

In Splendid Variety—Our Selection. 6c each; per dozen, 60c.; per 100, \$5.00. By express, not prepaid. By Parcel Post, add 10c. per dozen extra.

HELIOTROPE

Lilac. Sweet-scented. Very dark purple. 20c. each.

BEDDING or BORDER PLANTS

ACALPHA (Macafeeana)—A tall growing plant, used for bedding and border for Canna beds. Handsome foliage, as color is a combination of bright red and yellow, mottled with chocolate. 15c. each, \$1.50 per dozen.

ALTERNANTHERAS—Very useful and satisfactory bedding plants. We offer dwarf and tall varieties in colors of carmine, rose and carmine, yellow and red, at \$1.00 per dozen.

AGERATUM (Fraserii)—Another popular and extremely good bedding plant. Decided blue in color, growing about eight to ten inches high, and spreading about twelve to fifteen inches. Can also be used as a pot plant. 20c. each, \$2.00 per dozen.



CANNA

GERANIUMS

Price, 15c. each; \$1.50 per dozen. By express, not prepaid. 3c. each for Postage.

FROM 2-INCH POTS.

Ivy-Leaved Varieties

ALLIANCE—Delicate lilac white, upper petals blotched bright crimson rose, semi-double flowers.

CÆSAR FRANK—Soft rich crimson, shading to rose at base of petals.

JAMES ATTFIELD—Extra large double flowers, of pretty tint of soft pink.

JAMES T. HAMILTON—Intense carmine-crimson. **MRS. BANKS**—Blush white, upper petals feathered reddish Neyron. Light green foliage.

PIERRE CROZY—Semi-double bright scarlet flowers.

Standard Varieties

MRS. E. G. HILL—Single. A continual bloomer, of soft light salmon color. Semi-dwarf.

MRS. GEO. BURKE—Single. Soft velvety-crimson, free-flowering and good bedder.

MME. RECAMIER—Double pure white flowers. A strong grower.

ALPHONSE RICARD—Semi-double flowers of bright vermilion-scarlet, with bright green foliage.

BERTHA DE PEISSILY—Silver rose pink, slightly shading to an almost white centre; semi-double.

S. A. NUTT—Dark red double flowers. A good bedder and very popular.

SCARLET BEDDER—Semi-double flowers of dark fiery red. Fine as pot plant or bedder.

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CAPITATUM—Small leaf, rose-scented.

DALE PARK BEAUTY—Small, fragrant foliage.

FELICIFOLIUM ODORATUM—Very attractive, having fern-like foliage.

SCHOTTESHAMPET—Filbert-scented.

LADY MARY—Sweet-scented; rose-lake color.

LEMON—Lemon-scented.

NUTMEG—Dwarf; bright green foliage; nutmeg scented.

ROSE—Rose-scented.

POSTAGE 10c. EXTRA ON 1 TO 5 PLANTS.

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HARDY POMPON CHRYSANTHEMUMS

All from 2-inch pots, for bedding outdoors, for cut flowers, but not the large greenhouse varieties.

They are, however, being cultivated extensively for garden purposes.

Price, 10c. each; per dozen, \$1.00; per 100, \$6.00. By express, not Prepaid. Add 10c. for 1 to 5 plants for postage.

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(These are not for exhibition purposes, but good results can be obtained by slight disbudding, leaving from six to eight flowers on a spray. Should also be protected from frost when desired for cutting).

BRONZE QUEEN—An even shade of golden bronze. Dwarf.

CLORINDA—Produces erect sprays of bronze.

ERMALINDA—Old rose, with silvery sheen.

FAIRY QUEEN—Deep enchantress color.

JULIA LA GRAVERE—Tall red.

LILLIAN DOTY—Beautiful shell pink; strong grower.

RED DOTY—Deep wine red.

UVALDA—Earliest white, sometimes showing tinge of pink when opening.

WHITE DIANA—Tall white.

WHITE DOTY—Large pure white.

SMALL-FLOWERING OR BUTTON VARIETIES

GOLDEN CLIMAX—Bright yellow.

GOLDEN CREST—Golden yellow pompon.

OURAY—Dark mahogany-brown flowers of medium size.

Miniature or Baby Varieties.

DAINTY MAID—Pearly White.

WHITE MIDGET—Purest white; somewhat larger than Baby.



BEGONIAS

CHATELAIN SUPREME—Live pure pink. Free-flowering and hardy. 15c. each.

LUMINOSA—Red flower; foliage turning reddish bronze, when growing in sun. 15c. each.

PRIDE OF NEW CASTLE—Red sport of chatelaine. Dwarf. 15c. each.

PRIMA DONNA—Limped-rose shading to carmine in center. Ever-blooming. 15c. each.

CORALLINE LUCERNE—Immense clusters of coral-red flowers of heavy wax texture, having bronze green foliage. 25c. each. All from 3-inch Pots.

LANTANAS

A. CLAVEN—Primrose pink.

A. COOK—Orange and rose dwarf.

AURORA—Tall, orange and coppery red.

CRAIGI—Lemon yellow turning to orange.

LYRE—Pure white with yellow center.

MER JAUNE—Semi-dwarf, bearing golden yellow blossoms.

TETHYS—Clear sulphur yellow, semi-dwarf.

PRICE

15c. each; \$1.50 dozen

ANEMONE VARIETIES

CHESTNUT—An even shade of tan, harmonizing with red and yellow.

IZOLA—Amaranth.

MAPLE LEAF—Like a soft maple leaf, color in various shades of red and yellow, changing from day to day.

VOLUNTEER—Good shade of yellow. Long stiff stems.

SINGLE VARIETIES

DAZZLER—Red.

MRS. BUCKINGHAM—Large flat flower of rosy pink.

IVY

HARDY ENGLISH—15c. each; \$1.50 per dozen.

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MOON VINES

15c. each; \$1.50 per dozen.

NOCTIFLORA—The standard white Moonvine.

LEARI (Blue Dawn Flower)—Generally known as the Blue Moonflower.

ADD 10c. ON 1 TO 5 PLANTS FOR POSTAGE.

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Newest and Latest Varieties For Prompt Delivery



We can supply pot grown plants of these varieties, after April 15th, at prices one-half cost of roots.

Quantity of one to three, 10c. extra.

Postage on roots, 3c. extra.

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ALICE WHITTIER—(Hy. Cactus.) A beautiful primrose yellow variety, \$2.00.

AMARILLA GRAND—Light yellow with broad petals of the Cactus-hybrid type, \$1.50.

AMBASSADOR—Cactus. Soft yellow at centre, shading deeper towards tips, \$1.00.

AMUN RA or THE SUN GOD—(Dec.) Copper and Orange, shading to gold and amber deepening to reddish-bronze. Keeps well when cut, \$1.00.

BOB PLEUSE—Fancy decorative with deep crimson-maroon flowers, with white-tipped petals. Early, \$1.75.

COUNTRESS OF LONSDALE—Cactus. Pointed petals of salmon-red, 30c.

DREAM—(Dec.) Broad petals, yellow at base and pink at outer ends, 50c.

EARL WILLIAMS—(Dec.) Brilliant crimson and white, 50c.

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F. W. FELLOWS—Cactus. Large flowers with narrow petals of intense coral-red with deeper suffusion at centre, 75c.

FORDHOOK CRAWFISH—Hyb. Cactus. Deep pink flushed with white at centre, base of petals shaded yellow, 75c.

FORDHOOK VICTORY—(Dec.) Tyrian-rose, \$2.00.

FRANCIS LOBDELL—Hyb. Cactus. Bright mallow-pink color shading to white. Fine for cutting, 50c.

JUDGE MAREAN—(Dec.) Large blooms with petals of salmon, pink, red, orange and yellow, in shading to glowing autumn coloring, 50c.

JANE COWL—(Dec.) Buff and Old Gold, blending to bright salmon at centre. Petals full and slightly twisted, \$3.00.

GRACE SPERLING—(Dec.) Golden iridescent buff with reverse of petals of amaranth purple, free blooming, 50c.

JERSEY BEAUTY—(Dec.) A garden beauty of pink color, \$1.00.

JERSEY'S BEACON—(Dec.) Chinese scarlet with paler reverse, \$1.00.

JEAN HARE—Hyb. Cactus. Yellow, buff and golden bronze, \$3.00.

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MRS. LEO NIESSEN—Cactus. Yellow at base suffused and tipped rich bronzy-red, \$1.00.

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MARMION—(Dec.) Pure golden yellow with bronze suffusion in centre, \$1.50.

MARGARET WOODROW WILSON—(Dec.) Creamy white shaded with pink and having deeper reverse, \$1.50.

MRS. JOHN SCHEEPERS—(Dec.) Large flowers, of canary-yellow color, shading to delicate pink on outer petals, 50c.

MRS. CARL SALBACH—(Dec.) Solferino pink with white suffusion. Large blooms, 50c.

MARIPOSA—Cactus. Orchid pink, with deeper centre with violet suffusion. Early bloomer and large flowers, 50c.

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MRS. I. DeVER WARNER—(Dec.) Deep mauve pink. Abundant bloomer, \$1.00.

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SAGAMORE—(Dec.) Apricot-buff shaded orange buff toward centre. Good keeper, 50c.

SNOWDRIFT—Giant variety with broad white waxy petals. Decorative, 50c.

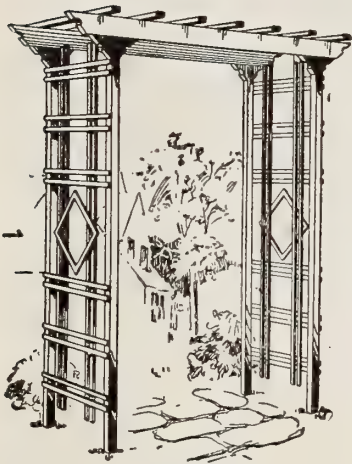
TRENTONIAN—(Dec.) A giant variety of distinct color of old gold, shading amber and coppery bronze, with centre of reddish-bronze, 50c.

COLLECTION OF 12 STANDARD VARIETIES IN BOX FOR \$2.00.

COLLECTION OF 12 NEWER VARIETIES IN BOX FOR \$5.00. Postage 3c. each extra.

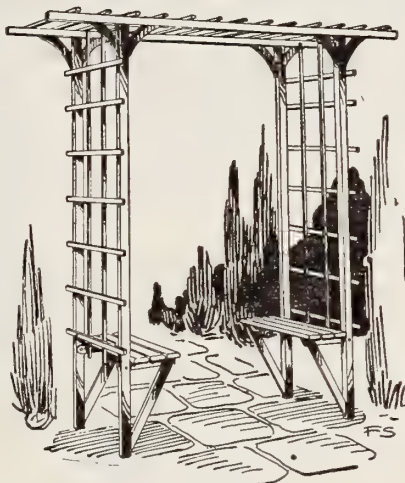
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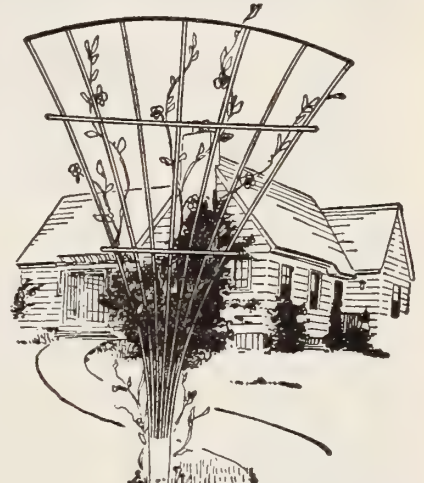
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Height, 7 feet; width, 8 feet; depth, 35 inches. **\$8.75 each.**



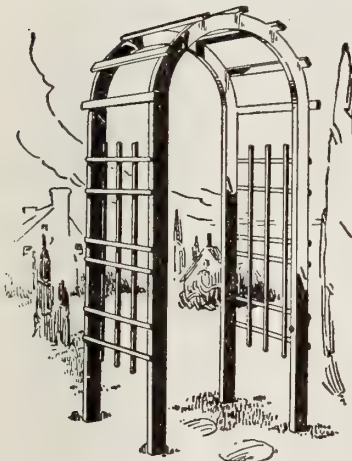
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Height, 6 feet; width, 46 inches; 7 uprights. **Price \$1.00.**



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Height, 7 feet 6 inches; width, 38 inches; depth, 35 inches. **\$9.00 each**



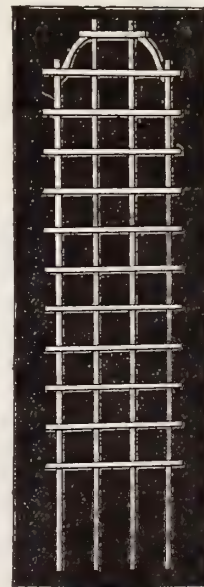
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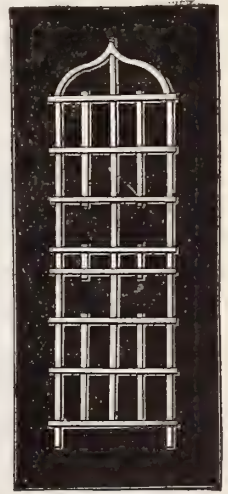
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Height, 8 feet; width, 17 inches. **\$1.00 each**



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Height, 8 feet; width, 24 inches. **\$1.25 each**



No. 112 TRELLIS

Height, 8 feet; width, 23 inches. **\$2.00**

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Height, 27 inches; diameter of bowl, 20 inches. **\$5.50.**

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STIMUGERM LEGUME INOCULATION

**High-Bred
 Nitrogen-
 Gathering
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**MEANS BETTER CROPS, BETTER SOILS,
 LESS FERTILIZER EXPENSE**

Stimugerm the "Always Fresh" Inoculant

What Stimugerm Is: A pure culture of nitrogen-fixing bacteria of highest quality. **Stimugerm**—always fresh—always strong and virile.

A Sensible Insurance and a profitable Investment.—We believe in inoculation, we favor the pure jelly medium, and we believe in **Stimugerm**. We recommend that all legume seeds purchased from us be inoculated before planting.

(A different culture is required for each legume group, so, when ordering, be sure to state what crops you wish to inoculate.)



NEW LOW PRICES—For small seeds—Clovers, Alfalfa, etc.
SMALL SEED LEGUME VARIETIES
 Alfalfa—Clovers—Sweet Clovers

1/4 bu. size retails at.....	\$.35
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1/4 bu. size retails at.....	\$.35
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Garden size for Garden peas, beans and sweet peas. Special composite culture, 25c.



CYANOGENAS A-Dust REG. U.S. PAT. OFF.

CYANOGENAS A-DUST is a powdered material that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to the rodent and insect pests and will kill them almost immediately.

CYANOGENAS A-DUST can be applied either with a **DUSTER** or with a spoon.

The **CYANOGENAS** method of controlling rodent and insect pests is easy, quick and thorough.

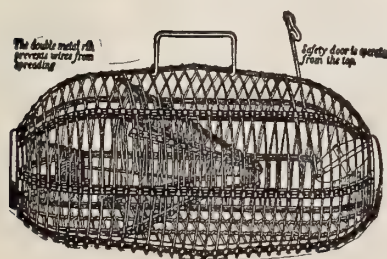
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CYANOGENAS A-DUST

100 lb.	\$30.00
25 lb. tins	10.00
5 lb. tins	3.00
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Hand Pump	1.25
Foot Pump	5.00



THE WIRE CAGE RAT TRAP



The size of this trap makes it the ideal for house use.

It is strong and will stand rough use.

The patent door eliminates all danger from the caged rats. Size—15 inches long, 9 inches wide, 7 inches high.

No. 17—Coppered wire, nine sheet-steel flanged ribs.

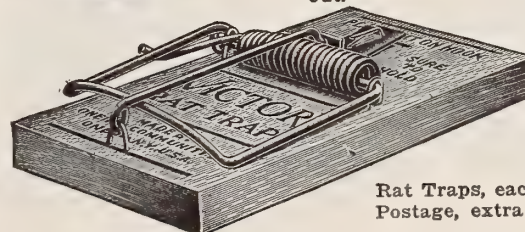
PRICE, 80c.



VICTOR

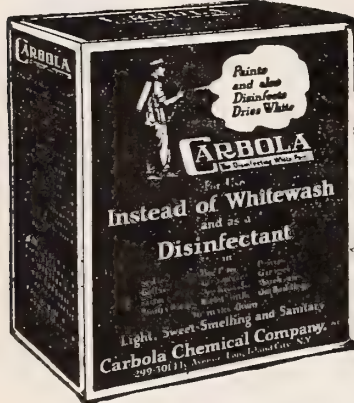
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Made of hard wood blocks, bait hook designed to make catching sure every time. Long clinched staples that can't come out.



PRICE:
 Mice
 Traps,
 three for
 10 cts.
 Postage,
 extra,
 5 cts.

Rat Traps, each....10 cts.
 Postage, extra..... 5 cts.



Carbola is used by thousands of poultry, dairy and breeding farms and by many agricultural colleges and experiment stations to increase the light in their farm buildings, and help put them in that clean, sweet-smelling sanitary condition that is such an aid in avoiding the losses caused by lice, mites and many of the contagious diseases that affect poultry and livestock.

CARBOLA is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl. **CARBOLA** is two things in one—a paint that disinfects or a disinfectant that paints. It dries a clear, snow white. It saves labor, time and money. It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect only.



CARBOLA is recommended for use instead of whitewash in every place where whitewash ordinarily is used.

Garages Warehouses Outbuildings
Factories Cellars Tree Trunks

It is recommended for use instead of whitewash and disinfectants in

Stables Rabbit Hutches Hog Pens
Kennels Barns Dairy Buildings
Poultry Houses Creameries

It is recommended for use as a disinfectant.

PRICES

(Paints and disinfects 200 square feet.)

5 pounds (2½ gallons).....	\$.75
10 pounds (5 gallons).....	1.25
50 pounds (25 gallons).....	5.00



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FIGHT FIRES AT THEIR START

SAFEGUARD YOUR PROPERTY WITH PYRENE

The surest way to avoid serious fires is to have **Pyrene** on hand when the fire comes. It may save your home, your barn, your stock, your crops your machinery and your automobile. **Pyrene** is a great economy even if you never have to use it because of the reduced rates you can obtain if you have it.

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PRICE

Brass Extinguishers	\$12.00
Liquid, per quart	1.80
Guardene Fire Extinguisher.....	20.00

Larger Extinguishers. Price on Appl.

"THE VITAL FIVE MINUTES."



A MEAN JOB MADE EASY

The United States Department of Agriculture estimates the loss of farm livestock from contagious disease at over \$200,000,000.00 each year. A large part of this stupendous loss could be prevented by proper sanitation in poultry houses, stables and pig pens. In addition to reducing this expense, clean living quarters also help to increase production. Next to a proper supply of feed and water nothing is more important than keeping the buildings clean. Sickness or disease usually start in unclean quarters, and in such quarters lice and mites always are more plentiful.

Dethol

(IMPROVED)

Kills Bugs and Insects

Such as Flies, Mosquitoes,
Roaches, Water Bugs, Ants,
Bed Bugs and Fleas

~ Moth Preventive ~
Disinfectant ~ Deodorant
A Household Necessity

IMPROVED DETHOL is made from a new and secret formula that cannot be duplicated. Nothing like it before—nothing its equal now. Simple—Safe—Sure. There can be no substitute for it. Accept no imitations.

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IMPROVED DETHOL, sprayed lightly on tile, porcelain, wash basins and bath tubs, immediately loosens grime and grease, which can then be quickly and easily removed by wiping with rag, leaving a spotless and glistening surface. Also aids in disinfecting and deodorizing, and helps to purify foul-smelling air. Its cleansing spray penetrates where neither brush nor broom can reach.

On the farm, **IMPROVED DETHOL**, sprayed freely in hen houses, etc., and sprayed lightly and regularly on poultry and stock, keeps them free from many kinds of insects and vermin. Do not spray **IMPROVED DETHOL** on young animals, cats or vegetation.

½ Pint	\$0.50
1 Pint .....	.75
1 Quart	1.25
1 Gallon	4.00

HORTICULTURAL TOOLS AND SUPPLIES

GRASS HOOK



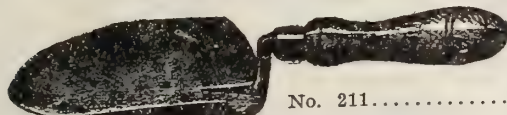
No. 1 German Grass Hook.....	\$.50
No. 2 German Grass Hook.....	.60
Best English Grass—No. 2.....	.75
Best English Grass—No. 3.....	.80
Best English Hedge or Grass Hooks—No. 4 ..	.90
American—plain .....	.50
Lawn King—polished .....	.75
Long Handle Grass Hook	1.00

GARDEN TROWELS



No. 212—American, 16-gauge tool steel, 6-inch blade, a handle that will not come out in dry weather. Price, 30c.
No. 213—American, 6-inch bright steel blade, plain handle, 15c.

ENGLISH PATTERN FORGED STEEL GARDEN TROWEL



No. 211.....75c.

TRANSPLANTING TROWEL



No. 217—5-inch blade.....	20c.
No. 217—8-inch blade.....	35c.

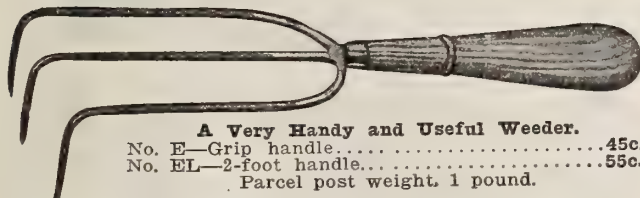
MOE'S ALL STEEL GARDEN TROWELS AND WEEDERS

Heavy pressed steel black enamel finish with polished points. No loose wooden handles.

No. 80—Garden trowel, 6-in. blade. Each.....	20c.
No. 81—Transplanting trowel. Each.....	20c.
No. 82—Garden Weeder. Each.....	20c.

No. 85—Galvanized Strong Steel Trowel, one piece, very durable. Parcel Post weight, 1 pound. Price 10c.

EUREKA HAND WEEDER



A Very Handy and Useful Weeder.

No. E—Grip handle.....	45c.
No. EL—2-foot handle.....	55c.

Parcel post weight, 1 pound.

LARGE HAND WEEDER



Parcel post weight, 1 pound.

No. 400—4 Prong Hand Weeder.....	35c.
No. G—Solid Steel Hand Weeder, 3 Prong.....	45c.

GRASWIP



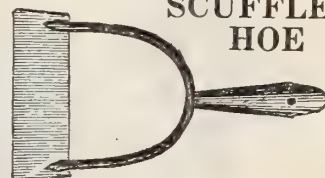
No. 160 Graswip is made of Forged Tool Steel, and has two cutting edges, you swing it like a golf stick and it cuts both ways on the forward and backward stroke.

A very handy tool in high grass and for cutting weeds. It is easy to operate in a standing position.

Wonderful to use on dandelions and plantain on the lawn, when a lawn mower will not get the seed heads.

Price\$1.00

SCUFFLE HOE



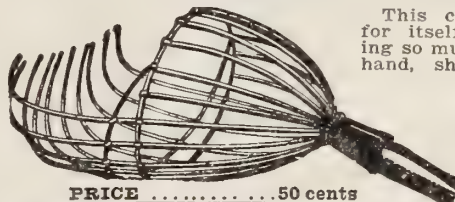
4-inch	\$.70
6-inch .....	.80
8-inch	1.00

GRAPE SCISSORS



No. 4774—Grape Pickers.....	\$.60
Flower Scissors.....	1.75

FRUIT PICKER



This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole.

PRICE50 cents

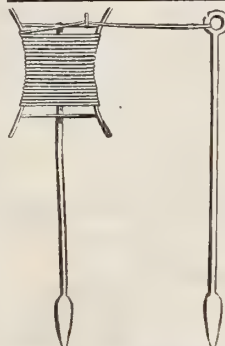
Pruning Knives



No. 66105—Cocoa Handle.....	\$1.00
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BUDDING KNIVES

No. 15PR.....	\$1.00
No. 1510B.....	1.25



GARDEN REELS

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

Large size reel to hold 100 feet of line	\$2.50
No. 1 Garden Reel.....	1.50

GARDEN LINE.

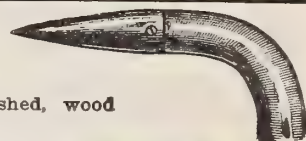
Best grade 3/16-in. Cotton Garden Line, in any desired length.

Price, per 100 feet.....\$1.50

DIBBERS

For transferring plants. By far the best thing for the purpose ever introduced.

Right-angle shape, steel-polished, wood handle, 80c.



ASPARAGUS KNIFE



Made of solid steel; see the cutting point. Price.. .40c. each
Parcel post weight, 1 lb.

Asparagus Buncher

Put your asparagus up in bunches, with this Improved Asparagus Buncher. It is adjustable for all lengths of bundles, correct in design and quick in operation. It makes a well-formed, compact bundle, adding greatly to the looks of the vegetable.

Parcel post wt. 5 lbs. Price each., \$4.50



HORTICULTURAL TOOLS AND SUPPLIES—Continued



"LITTLE WONDER" HEDGE TRIMMER

Hedge will improve in appearance after it is trimmed with the "Little Wonder," by reason of the straight cutting, no dips or round corners and other common faults often noticed in hedge trimmed by hand shears.

It is not near as hard work trimming, with the "Little Wonder" as the hand

shears, it does not tire the wrists; in fact, it is a pleasure to walk along the hedge and turn the crank and see the hedge fly; it really operates astonishingly easy.

30-inch machine.....	\$25.00
40-inch machine.....	27.50
60-inch machine.....	35.00

Hedge Shears (Plain)

No. 100—8-inch..	\$2.00
No. 100—9-inch..	2.25
No. 100—10-inch..	2.50
No. 100—12-inch..	3.00

(With Notch)

No. 101—8-inch..	\$2.25
No. 101—9-inch..	2.50
No. 101—10-inch..	2.75
No. 101—12-inch..	3.25

Serrated Edge Shears, Add 30c.

Lopping Shears

The Baltimore Draw Cut Shear is extra strong, and will cut large limbs with the least exertion.

The No. 5406 Shear is light and strong and is very handy for light work. It will not tire you to handle it.

No. 5406—20-inch Handles.....	\$1.60
No. 5406—24-inch Handles.....	2.00
No. 5402—Baltimore Draw Cut, 24-inch handles.....	3.50
No. 5403—Baltimore Draw Cut, 22-inch handles.....	3.00
No. 5408—Forged Solid Tool, Steel Blade, 24-inch Handle	2.75

This hedge trimming shear is hand forged, light and very strong.

The handles are riveted on in a way they never come loose.

8-in.	\$2.50
9-in.	3.00

TRIMSNIP

PRUNING

SAW

No. 16—14 in.	
Price, \$2.00	

PRUNING SAWS

No. 3 Saws.		No. 1 Saws.	
16-inch double.....	\$1.65	16-inch single.....	\$1.60
18-inch double.....	1.80	18-inch single.....	1.75
20-inch double.....	1.90	20-inch single.....	1.85

Pruning Shears

No. 4—Flat Spring, Steel Blade.....	\$.60
No. 33—Coil Spring, Mal. Handle, Steel Blade.....	.60
No. 4665—Solid Steel, 9-inch.....	1.00
No. 4666—Solid Steel, full polish, 9-inch.....	1.50
No. 544—Ladies', nickel-plated, 6-inch.....	1.75

Parcel post weight, 1 pound.



Water's Tree Pruners

4 feet.....	\$1.60
6 feet.....	1.80
8 feet.....	2.00
10 feet.....	2.20
12 feet.....	2.40
14 feet.....	2.60
Extra Knives.....	.20

Telegraph Tree Pruners

Price, without pole.....	\$1.40
Lineman Tree Pruner, No. 2.....	\$4.00

Doo-Klip Pruners

A Firm, Sturdy Tool
Price \$1.50

HY-LO GRASS SHEARS

No. 595. Blade length 6 3/4 inches. The Hy-Lo is our Keen-Clip Grass Shear with heavier blades and handles fitted with a 30-inch hardwood handle in a green waxed finish. It is the only practical long handled grass shear selling at a popular price. Weight 2 pounds.

Price \$1.75

GRASS SHEARS

Bent Handle.....	35c.
Trowel Handle.....	60c.

BORDER SHEARS



No. 105 With Wheel	
Price,	\$4.25

LAWN SHEARS

No. 1062—2 wheels, 8-inch blade, for cutting on narrow borders, under fences and shrubs. \$4.75

DOO-KLIP GRASS SHEARS

DOO-KLIP GRASS SHEARS have a unique up-and-down action which supplies the blades with maximum cutting power and yet requires the minimum amount of effort. Always easy running, they prevent blisters, skinned knuckles and grass stains, and allow the hand and arm to be used in a free and natural position.

Price, \$1.50.



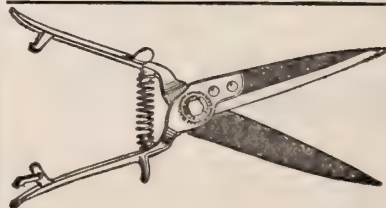
Sheep Shears

No. 055.....	\$1.00
No. 3755—Full polish	1.25
No. 3075.....	1.50

Grassnippers

Here is a tool that will cut grass easier than a shear. Built like hair cutters. Blades are forged steel, warranted. Handle is malleable, will not break.

Price \$1.00



FLORISTS AND GARDEN SUPPLIES

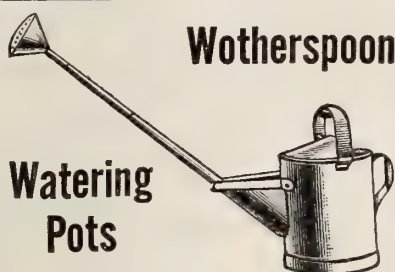


Iron Clad Watering Pots

4-qt.	\$.60
6-qt. ....	.70
8-qt. ....	.75
10-qt. ....	.85
12-qt.	1.05
16-qt.	1.25

These pots are made from the best grade of galvanized iron, and are very heavy and strong. The long spout makes them very desirable for greenhouse and flower bed use. Each can is equipped with a fine and coarse nozzle, with copper perforation.

4-quart	\$4.50
6-quart	4.80
8-quart	5.25
10-quart	5.60
12-quart	6.10



Wotherspoon

Watering Pots

PLANT SPRINKLERS

PUTTY BULB



This Improved Putty Bulb is made from a good grade of rubber. For glazing greenhouses, new or old; will be found very handy.

Price \$1.50
Parcel Post weight, 1 pound.
We do not guarantee rubber goods.



For sprinkling cut flowers, seedlings, plants, clothes, etc.
No. 1—Standard, 12-ounce \$1.50
Parcel post weight, 1 pound.

MASTICA

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

1-Gallon Cans \$2.40



MASTICA GLAZING MACHINE

OUR SPECIAL PRICE \$2.85

ASPARAGUS TAPE
Spools of about 1,000 yards,
\$2.00 each. Postage extra.
Parcel Post Weight, 2 lbs.

RAFFIA
The best material for tying
Plants, Vines, etc.
Per pound 25c.

GRAFTING WAX

¼-lb.	15c.	½-lb.	30c.	1-lb.	50c.
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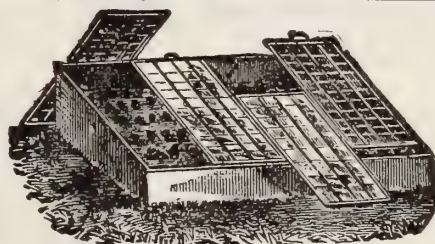
BURLAP HOT-BED MATS

Made of strong burlap, interlined.

Price, 40 x 76,
Each, \$1.90

Price, 76 x 76,
Each, \$3.25

Special Price in
Dozen Lots.



UNGLAZED HOT-BED SASH

3 ft. 2 in. x 6 ft.

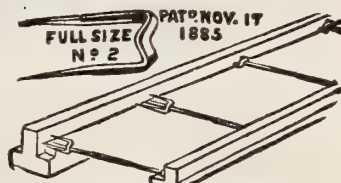
Price, \$1.85 each.

PEERLESS GLAZING POINTS

(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pliers; no "rights" or "lefts" to bother with.

Per box of 1,000 75c.
Pincers, per pair 85c.
Parcel post weight, 2 pounds.



SPHAGNUM MOSS

For packing growing Orchids, Plants, etc. Per bale \$3.00

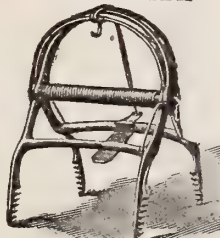


Used extensively by florists and growers of flowers for potted plants, shrubbery and lawns.
Per bale \$3.50

OLMSTEAD MOLE TRAP

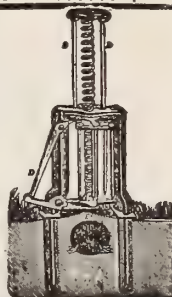
Without a doubt, the best mole trap made, built so that you can place a weight upon it, insuring perfect action, even in the softest ground. It is built low, and can be used

OUT-OF-SIGHT MOLE TRAP



in many places that a taller trap would not do.
Our Special Price
\$2.00
Parcel post wt., 2 lb.

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hot-beds and frames on account of convenient size.
Price \$1.25
Parcel Post weight, 2 pounds.



LITTLE GIANT MOLE TRAP



Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction.
Price \$1.00
Parcel post wt., 2 pounds.

FLORIST AND GARDEN SUPPLIES—Continued

Adjusto

PLANT SUPPORT

A sturdy, hardwood stake seven-eighths inch square, 3, 4, or 5 feet long with a strong wire support instantly adjustable to any height.

Enables you to cultivate close to the plant. "Adjusto" supported, tomatoes ripen to perfection. "Adjusto" supports bring out the full beauty of Dahlias, Chrysanthemums and all the slender, tall-growing varieties.

4 ft., each.....\$.30
5 ft., each.....\$.35

THE TIMESAVER PLANT SUPPORT

Your Flower and Vegetable Garden's Best Friend. Shove stake solidly into the ground—slide clip to the desired height—place twine around plant to any diameter.

No. 2 —3 ft.....\$1.15
No. 3 —3½ ft.....\$1.60
No. 3A —4 ft.....\$2.20
No. 4 —5 ft.....\$2.75

SIMPLEX WATERPROOF PLANT LABEL

Made of celluloid with transparent mica covering. Including copper wire for attaching.

No. 1—Per dozen \$.45 Per 100 \$3.00
No. 2—Per dozen .80 Per 100 5.00
No. 3—Per dozen 1.00 Per 100 7.00

SIMPLEX CELLULOID POT LABELS

Made of white celluloid with specially prepared writing surface. They are practically indestructible and most economical, as the marking may easily be erased and the labels used over again as often as desired.

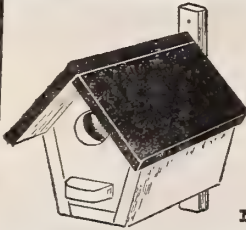
No. 21—4x½ in.
Per 100.....\$1.95

POT LABELS

Plain Painted
4-in., per 1000 \$1.60 \$2.00
5-in., per 1000 1.80 2.20
6-in., per 1000 2.00 2.50
8-in., per 250 1.62
12-in., per 100 1.10
Special price in quantities to florists.

PAINTED TREE LABELS

Per 1000
3½-in., notched.....\$1.80
3½-in., iron wired.... 2.20
3½-in., copper wired... 2.40



No. 1



No. 2



No. 2



No. 1

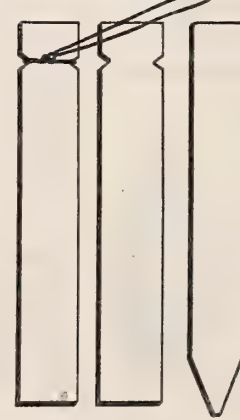
BIRD HOUSES

These houses are made from ¾ inch White Pine, nicely painted, white enamel bodies with the roofs painted green, or finished in rustic brown stain. Both making a very fine finish, and a handsome house.

The No. 1 House is made with slanting sides so arranged that the bottom dovetails in, making it so it can be pulled out as a slide for cleaning the house. It can also be mounted on a pole by nailing the bottom on top of pole and sliding the house over it. The mounting cleat on the back can be used in putting the house up in many places, and if not needed can be taken off.

The No. 2 House has a removable bottom held in place by four screws, and this house can be mounted on a pole by nailing the bottom on top of pole, placing the house in position and replacing the screws, or can be nailed or hung up in numerous ways.

No. 1 Bird House for Wren, Painted	\$1.25
No. 1 Bird House for Blue Bird, Painted	1.25
No. 1 Bird House for Wren, Rustic Brown	1.25
No. 1 Bird House for Blue Bird, Rustic Brown	1.25
No. 2 Bird House for Wren, Painted	1.00
No. 2 Bird House for Blue Bird, Painted	1.00
No. 2 Bird House for Wren, Rustic Brown	1.00
No. 2 Bird House for Blue Bird, Rustic Brown	1.00



HEAVY OR DAHLIA STAKES

	Ea.	Per Doz.	Per 100
3 ft.	12c.	\$1.15	\$8.60
4 ft.	15c.	1.55	11.40
5 ft.	20c.	2.25	14.60
6 ft.	25c.	2.50	17.90

LIGHT PLANT STAKES

	Ea.	Per Doz.	Per 100
1½ ft. ..	3c.	\$.25	\$1.50
2 ft. ..	4c.	.40	2.80
2½ ft. ..	6c.	.60	4.10
3 ft. ..	8c.	.75	5.40

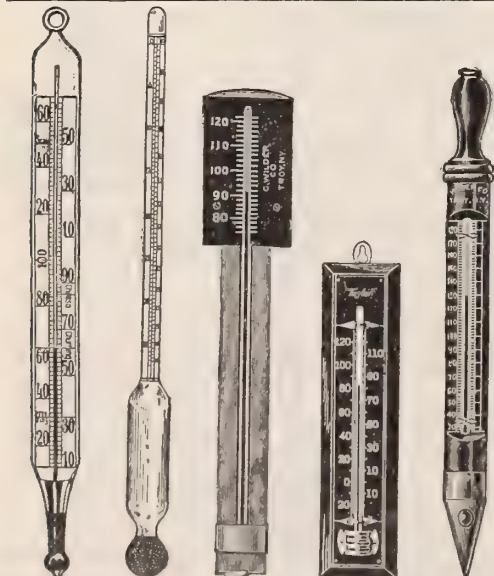
GALVANIZED STEEL STAKES

	100	Per	Per	Per
	weigh	doz.	100	1000
2 ft. 10 lbs.	.25	\$1.25	\$9.75	
3 ft. 14 lbs.	.40	2.00	13.75	
3½ ft. 17 lbs.	.45	2.25	16.50	
4 ft. 19 lbs.	.50	2.50	18.55	
5 ft. 24 lbs.	.65	3.00	22.50	

CANE STAKES

5 to 7 feet long.
Per 100..\$1.00 Per 1000..\$7.00

THERMOMETERS



No. 5715S No. 7410 No. 5792 No. 5120 No. 5981

No. 5120—6-inch Cabinet, magnifying tube, black oxidized scale, white figures and graduation, brass screw clasps and guard, back oak finished, natural\$1.00

No. 5140—8-inch Cabinet, magnifying tube, black oxidized brass scale, white filled figures, nickled straps and guard, wood back, finished in birch65c.

No. 5440—10-inch tin japanned.30c.

No. 5442—12-inch Tobacco Curing, best quality, tested.....75c.

No. 5170—8-inch Distance Reading; an excellent thermometer for greenhouses and for use where it is necessary to get a quick reading.....30c.

No. 5776—Incubator Thermometer may be used for a stand-up, or reclining with proper holder.
With Holder, each.....\$1.00

No. 5792—Brooder Thermometer for Prairie State Brooders, each....75c.

No. 5794—Thermometer for all Brooders50c.

No. 5316S—Temprite Window Thermometer with hanger for outside of window or door, Red Spirit, Large Figures, easy to read.....\$1.25

No. 5452—Self-Registering, box-wood scale, black filled figures, japanned tin case, 10-in.....\$6.00

No. 5981—Hot Bed, 16-in., wood frame, with handle, brass pointed ferrule, brass oxidized scale, white-filled figures and graduations.....\$3.00

No. 5740—Standard Dairy, stands boiling water; black oxidized brass scale, white-filled figures and graduations, range from 20 to 200 degrees\$1.00

No. 5715S—Floating Glass Dairy 30c

No. 7236—Milk Hydrometer (Quevne)\$1.50

No. 7240—Lime-Sulphur Hydrometer\$1.50

No. 7410—Lime-Sulphur Hydrometer, with test jar.....\$2.25

If thermometers are wanted by parcel post, add 10 cents for postage and packing.

HUDSON CRANK DUSTERS



The **No. 604 Hudson Crank Duster** delivers sufficient air to the nozzles to prevent clogging and breaks the powder into a fine, floating dust. It has two agitators. The oscillating agitator keeps the powder from caking in the hopper. The Rotary agitator feeds the powder down into the delivery spout. Indicator has an unusual range of adjustment and can be set to feed exactly the amount of powder required.

Made of lead-coated steel, painted. Gears are steel, machine cut, run in oil, reducing wear and noise. The gear case is oil and dust proof. Discharge equipment consists of two nozzles, two elbows, a Wye connection, and four 15-inch tubes. Can be arranged to dust plants from above or from below. Can be used with either one or two nozzles. Capacity 5 to 10 pounds, depending on powder used. Weight 22 pounds.

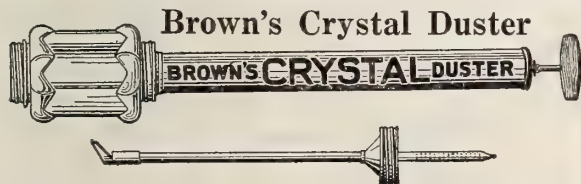
No. 604. HUDSON CRANK DUSTER, \$13.75



No. 602 Hudson Crank Duster similar in construction to the No. 604 but is of smaller capacity, holding from two to five pounds. It has a rotary agitator only, as with the smaller hopper this is sufficient agitation to prevent caking or clogging. This Duster is particularly desirable for potatoes, tomatoes, cabbage, melons, and other garden truck.

Standard Package. One in a heavy fibre carton. Shipping weight 14½ pounds.

No. 602. HUDSON CRANK DUSTER \$10.00



Brown's Crystal Duster is one of the newest type Dusters on the market. We recommend this Duster for use in dusting truck crops in the garden, flower beds, roach powder, etc. This Duster has the glass jar feature, which enables the operator to see the agitation of the dust and shows the amount of dust in the container. It is equipped with a long extension and adjustable nozzle which enables the operator to dust from underneath without bending. Capacity, 1 quart.

Brown's Crystal Duster, tin cylinder, glass container, extension.....\$1.30

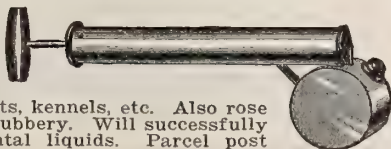
AUTO SPRAY ACCESSORIES



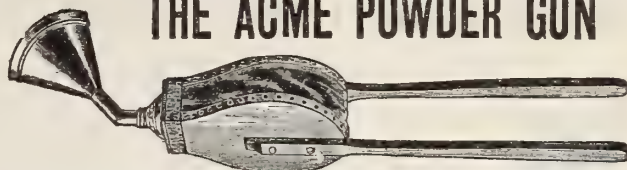
Auto-Pop Nozzles.....\$1.50
Extension Pipe, brass, 2-foot length55
Brass Elbow..... .35
Double Row Attachment.. 1.50
Brass Strainer for straining solutions used in Auto-Spray 1.30

MIDGET TIN HOUSE SPRAYER

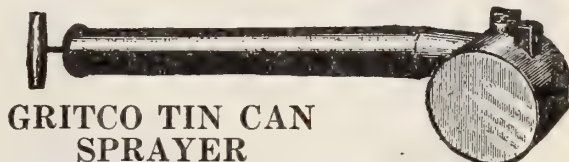
Similar to Tin Can Sprayer, only smaller. Holds half pint. Indispensable in every household. Just the thing for disinfecting sick rooms, drains, vaults, kennels, etc. Also rose bushes or any small shrubbery. Will successfully apply any non-sedimental liquids. Parcel post weight, 1 pound. **Price 35 cents.**



THE ACME POWDER GUN



Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Handles of convenient length and bellows of fine russet leather. A very practical and convenient way of applying Paris Green, Lice Killers, Insect Powder, etc. Parcel post weight, 2 pounds. **OUR SPECIAL PRICE, \$1.50.**

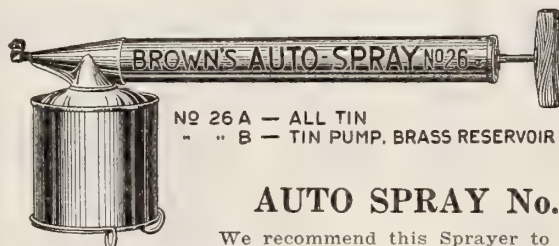


GRITCO TIN CAN SPRAYER

For spraying insecticides on plants and flowers, disinfectants in sick rooms, kennels, cellars, drains, vaults, poultry houses, etc.

Tank, 4 inches in diameter, 4 inches deep; air chamber, 1½ inches long, 1¾ inches in diameter. Coppered steel plunger rod. Made of heavy tin plate. Each one tested for leaks and sprays. Capacity, one quart. Parcel post weight, 2 pounds.

OUR SPECIAL PRICE.....50c.



NO 26 A — ALL TIN
" " B — TIN PUMP, BRASS RESERVOIR

No. 26

AUTO SPRAY No. 26

We recommend this Sprayer to our patrons for use in the household, garden and greenhouse. It is used for spraying insecticides, disinfectants and cattle fly spray. No. 26-A with tin pump cylinder and tin container; No. 26-B with tin pump cylinder and brass container. The brass Sprayer is the most highly recommended because of its corrosion-resisting and rust-resisting qualities.

No. 26-A, Tin Cylinder, tin container.....\$1.00
No. 26-B, Tin Cylinder, brass container..... 1.60

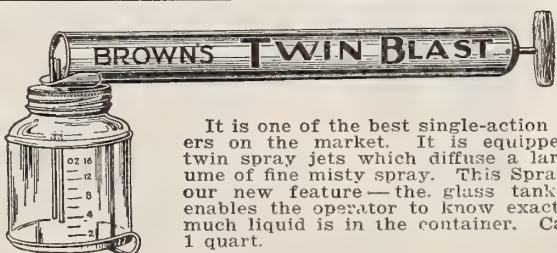


No. 26-AG

AUTO SPRAY No. 26-AG

The Auto Spray No. 26-AG is the newest type of continuous atomizer on the market. This Sprayer is made of strong lithographed tin with a new feature, the glass tank. It enables the operator to know exactly how much liquid is in the container and it is more easily cleaned when a number of different solutions are to be sprayed. Capacity, 1 quart.

Auto Spray No. 26-AG, Tin Cylinder, glass tank.....\$1.25



It is one of the best single-action atomizers on the market. It is equipped with twin spray jets which diffuse a large volume of fine misty spray. This Sprayer has our new feature—the glass tank which enables the operator to know exactly how much liquid is in the container. Capacity, 1 quart.
Tin Cylinder, glass container.....\$.75

LEVER BUCKET SPRAY PUMPS

Fig. 632.



Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass, and fitted with brass ball valves and patented agitator. The cylinder is 1 1/2 inch in diameter with solid plunger. The air chamber is fifty per cent larger than the ordinary bucket spray pump, has malleable iron foot rest and malleable lever. This pump can be operated with one-half the power of the ordinary bucket spray pump, owing to the advantage of the lever handle. This pump can also be used as a barrel spray pump the head having two holes in for bolting same to the barrel.

We recommend a Bordeaux Spray Nozzle for whitewashing and painting, if you desire the Vermorel Nozzle instead of the Bordeaux, please specify.

Fig. 632, No. R 324 Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle.

Our Special Price...\$7.00

No. R 324A Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle and eight foot pipe extension.

Our Special Price...\$7.65

No. R 324B Lever Bucket Spray Pump, with agitator complete with hose, Bordeaux coarse spray and solid stream nozzle and eight foot pipe extension with stopcock.

Our Special Price...\$8.65

LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER WITH AGITATOR

Fig. 639.

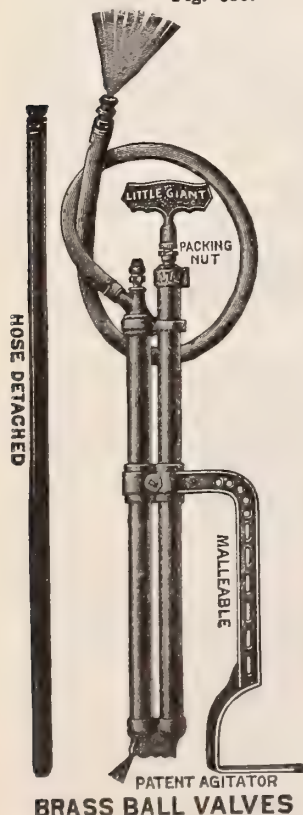


Fig. 639 Spray Pump is constructed entirely of brass. They are so arranged that the labor of pumping is all on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position. It is provided with a large air chamber and has brass ball valves and detachable hose; the nozzle throws a continuous spray, and is not affected by the movement of the plunger. Will throw a solid stream fifty feet, and is of unusual value in spraying trees, washing windows and buggies, extinguishing fires, spraying flowers and etc.

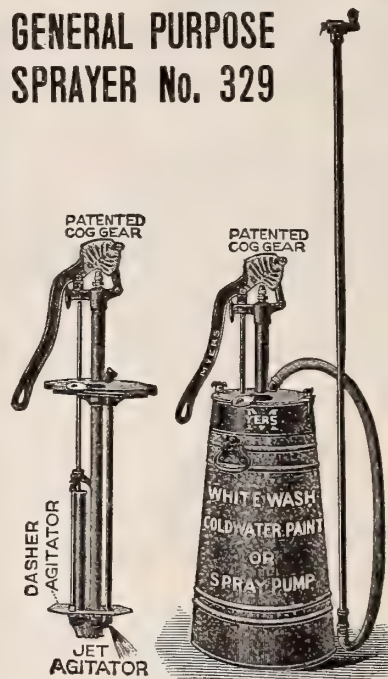
No. 327 1/2, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle.

Our Special Price....\$4.50

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension.

Our Special Price....\$5.15

THE MYERS WHITEWASH, GOLD WATER PAINTING MACHINE AND GENERAL PURPOSE SPRAYER No. 329



This General Purpose Sprayer with patent Double Agitator is a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

This is an excellent outfit for whitewashing chicken houses, fences and outbuildings. For spraying trees, shrubbery, plants and in fact anything where a small sprayer can be used. This outfit will be found just the thing.

The pump used in this outfit is the same as the No. 324 Sprayer as shown under Fig. 632, fitted with Bordeaux nozzle, brass ball valves and has jet and dasher agitator.

Complete with Hose, Nozzle, Agitator and Extension Rod.

Our Special Price, \$13.50

THE LEVER KNAPSACK SPRAY PUMP

Fig. 547.—No. 330 Galvanized.



Tank holds 5 gallons, is fitted with lid, and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet 1/2-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream, or shut off entirely.

Our Special Price, \$12.50

The Perfect Knapsack Spray Pump

Fig. 547.—No. 331. Copper.

Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop-cock, pipe extension and Bordeaux nozzle.

Our Special Price.....\$18.00

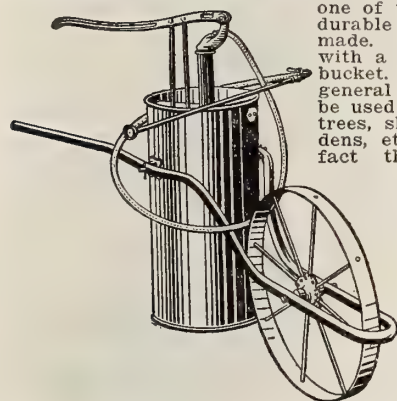
FOR SPRAYING MATERIALS, SEE PAGES 76 TO 79



AUTO SPRAY No. 50

We highly recommend the Auto Spray No. 50. It is extremely desirable for use in spraying agricultural insecticides, disinfectants and where the spraying is not extensive, and is especially adapted for use by women or persons physically unable to carry a great weight. Tank is constructed of heavy, strong copper bearing galvanized sheet steel. Pump cylinder is of one piece seamless brass tubing. This Sprayer has the screw lock and drain-dry feature. Capacity, 2½ gallons. Auto Spray No. 50-D, Galvanized Tank. Priced at..\$5.80

BROWN'S AUTO SPRAY No. 3-D



The Auto Spray No. 3-D is one of the most powerful and durable Wheelbarrow Sprayers made. This Sprayer comes with a heavy galvanized steel bucket. It is an excellent general purpose Sprayer—can be used for spraying orchards, trees, shrubs, field crops, gardens, etc. On account of the fact that this Sprayer is equipped with an efficient agitator it is an excellent Sprayer for applying whitewash and cold water paint. It is equipped with a very strong, well-built pump with brass cylinder and valves. Auto Spray No. 3-D, Bucket, 12 gallons, truck, wheel, and pump\$19.50

AUTO SPRAY No. 5



GENERAL PURPOSE HAND PUMP

It is made entirely of brass, doing away with all danger of corrosion.

The pump is double-acting. This feature makes the spray continuous. Anyone who has used a single-acting pump of this kind will immediately recognize the advantage in a pump that works on both the up and down stroke.

OUR SPECIAL PRICE, \$5.00

AUTO SPRAY No. 23-C—All Brass



The Auto Spray No. 23-C is a large capacity continuous Sprayer, made entirely of strong sheet brass. It handles all garden insecticides and disinfectants; it is very useful in large institutions where extensive spraying of disinfectants, insecticides, etc., is done. Valve is easily cleaned by removing valve cap and ball. Capacity, 3 quarts.

PRICE, \$3.45



BROWN'S AUTO SPRAY No. 1

The Auto Spray No. 1 is an excellent compressed air Sprayer for use in spraying small trees, gardens, field crops, chicken houses, etc. This Sprayer has the Brown drain-dry feature; the inverted flange on the cam lock does not interfere with drainage of liquid from the tank. This Sprayer, because of the cam lock device, is especially adapted for spraying gummy or heavy substances, besides agricultural insecticides, disinfectants and light floor oils. Corrugated tank of heavy sheet brass or strong copper bearing galvanized steel sheet.

Auto Spray No. 1-B, Brass Tank, priced at **\$10.00.**

Auto Spray No. 1-D, Galvanized Tank, priced at **\$6.75.**

BROWN'S VICTORY SPRAY



Brown's Victory is a general purpose compressed air Sprayer. It is used for spraying shrubs, gardens, truck crops, insecticides, disinfectants, chicken houses, etc. It has the bayonet locking feature, which provides quick and easy filling. The corrugated

tank is made of heavy copper bearing galvanized steel sheet, the pump cylinder is of best quality one-piece seamless brass tubing. We recommend this Sprayer as one of the best of its type. Brown's Victory No. 201-D, galvanized tank.....\$6.00

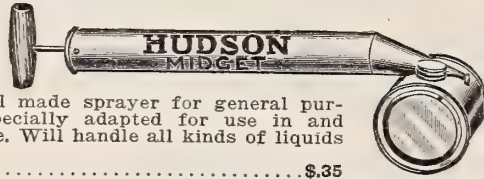


BROWN'S BRONCO SPRAYER

This Compressed Air Sprayer is complete in every detail, having most of the features of the best sprayers of this type. While it is competitive in price, the quality is very high. It has a brass pump and spray rod extension, galvanized tank. Suitable for spraying any of the liquid insecticides, disinfectants, fly sprays, etc. Do not judge its quality by its price.

PRICE, \$4.50

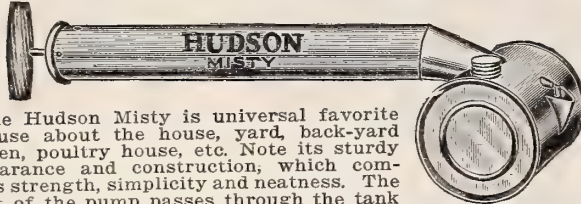
HUDSON MIDGET SPRAYER



A small well made sprayer for general purposes and especially adapted for use in and about the home. Will handle all kinds of liquids satisfactorily.

No. 202 Price\$.35

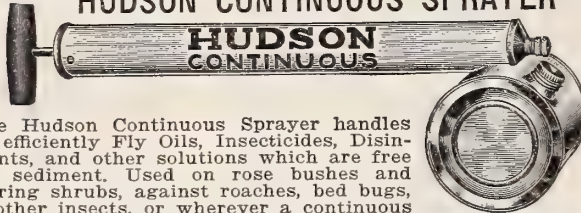
HUDSON MISTY SPRAYER



The Hudson Misty is universal favorite for use about the house, yard, back-yard garden, poultry house, etc. Note its sturdy appearance and construction, which combines strength, simplicity and neatness. The point of the pump passes through the tank and is firmly soldered. Spray tube is aligned before soldering so that the air and syphon tubes are always in line. Every Sprayer carefully tested and inspected before packing.

No. 452 Tin. Price\$.50

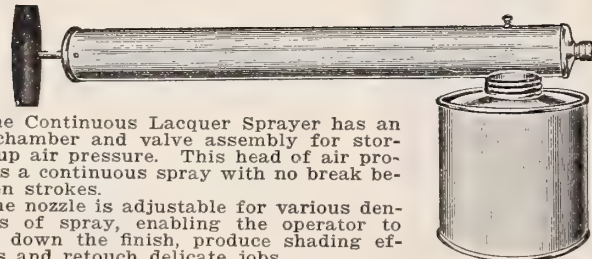
HUDSON CONTINUOUS SPRAYER



The Hudson Continuous Sprayer handles very efficiently Fly Oils, Insecticides, Disinfectants, and other solutions which are free from sediment. Used on rose bushes and flowering shrubs, against roaches, bed bugs, and other insects, or wherever a continuous spray is desired. It delivers an equally finely divided, atomized mist continuously. Very rigid construction with pump recessed in top of tank and securely soldered. All working parts are brass with siphon tube and ball check readily accessible.

Pump. Heavy tin or brass; 1½ in. diameter, 14 in. long.
No. 426 Tin\$.75 No. 426 B Brass\$ 1.35

HUDSON CONTINUOUS LACQUER SPRAYER



The Continuous Lacquer Sprayer has an air chamber and valve assembly for storing up air pressure. This head of air produces a continuous spray with no break between strokes.

The nozzle is adjustable for various densities of spray, enabling the operator to tone down the finish, produce shading effects and retouch delicate jobs.

Discharge tube, valve assembly and nozzle easily removed for cleaning. Pump is equipped with special cup leather, heavy plunger rod and comfortable wood handle. Capacity one quart.

An exclusive feature of this sprayer is the air valve on top of pump, permitting an immediate release of pressure in the tank. Price each,\$ 1.25. Extra Cans, Price each, \$ 2.5

HUDSON TROMBONE SPRAYER



The Hudson Trombone Sprayer is a high pressure spray pump adapted for spraying orchards, vineyards, shrubbery, shade trees, potatoes and field crops; for whitewashing, disinfecting, spraying stock dip and fly oils, washing windows and automobiles, fighting fires and numerous other purposes.

Equipment. Fitted with 3 feet of ¾ inch spray hose, brass intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.

No. 133. TROMBONE Price each\$ 4.35

Hudson Modoc Spray Pump



The Modac is used in spraying fruit trees and vines, garden truck, ornamental shrubs and hedges; for whitewash, disinfectants, insecticides; for washing automobiles, wagons, windows, or in an emergency as a fire pump.

It is double acting and continuous, developing 150 pounds nozzle pressure. Makes a very convenient portable outfit because it can be used with a bucket or small tank. Valves and plunger are accessible for cleaning, etc. Nozzle discs are reversible or removable, producing any desired spray from the very finest to a solid stream. All parts except the handle and foot rest are brass.

SPECIFICATIONS

Cylinder. 1½ inch diameter, 18 inches long, forming the outside tube of the pump. Seamless brass tubing.

Valves. Bronze balls in brass cages.

Air Chamber. ¾ inch diameter, 18 inches long, seamless brass tubing, consists of the plunger tube. Ample capacity to give a continuous discharge.

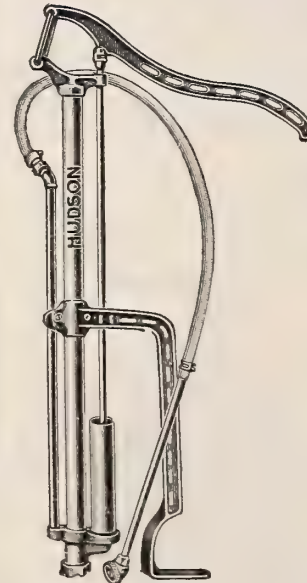
Plunger. ¾-inch diameter, acid-proof web packing. Malleable "D" handle.

Foot Rest. Malleable iron.

Discharge Equipment. 3 feet of ¾ inch spray hose, a 12-inch extension and fog nozzle fitted with discs for spray or solid stream. Can be used with a longer extension rod if desired.

Price\$ 4.35

Hudson Moro Spray Pump

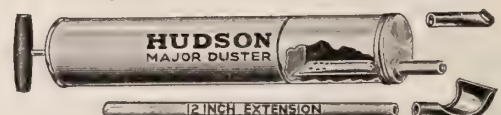


The Hudson Moro Spray Pump handles all spray solutions. Its high pressure adapts it for use in small orchards, vineyards and truck gardens; for use with whitewash and cold water paints, with insecticides, fungicides, disinfectants, stock dips, etc. A convenient portable outfit because it can be used with any bucket, pail or small tank. Unusually long foot rest permits using higher bucket than most pumps will accommodate. All working parts are brass. Valves and nozzle parts are easily accessible for cleaning, etc. Nozzle discs are reversible producing any desired spray from finest mist to coarse stream.

No. 126. Moro.

Price\$ 6.00

HUDSON MAJOR DUSTER



The Hudson Major Duster handles Paris Green, Arsenate of Lead, Calcium Arsenate and similar poisons very efficiently. It is used in the home garden, on truck plots, in cotton, potato and tobacco fields, in the dairy barn, around the poultry houses, etc.

Pump. Heavy tin, 2¼ inches diameter, 9 inches long. Fitted with special Hudson plunger leather and heavy rod.

No. 665. Price\$ 1.15



HUDSON PERFECTION SPRAYER

For work of any kind requiring a high pressure compressed air sprayer, the Perfection is supreme. It provides an easy and economical means of whitewashing, cold water painting, disinfecting, etc. It is very practical for use around the orchard, barn, or outhouse; on small truck farms; in onion, melon and small potato fields; for removing old wall paper, spraying stock dip, etc.

Tank. 7½ inches diameter, 20 inches high; capacity approximately 4 gallons. All seams are riveted and soldered.

Pump. Seamless brass tubing, 1¾ inches diameter, 15 inches long.

Nozzle. Is especially designed for high pressure work.

No. 110G. PERFECTION, Galvanized\$6.75
No. 110B. PERFECTION, Brass Tank, Price each.....10.50



HUDSON ECONOMY SPRAYER

The Hudson Economy Sprayer is designed to give the purchaser the greatest possible value at an attractive price. Workmanship is of very high order throughout, materials of first quality.

Tank. 7¼ inches diameter, 20 inches high; capacity approximately 3¾ gallons. Made of first quality galvanized sheet. Sturdily built, with convex ends secured by double folded top and bottom seams, riveted side seams, and heavily sweat soldered throughout. Tested under actual working conditions to insure safety in operation.

Price \$5.00



HUDSON JUNIOR SPRAYER

The Hudson Junior Sprayer is made for the man who needs a high pressure compressed air sprayer of small capacity. It is particularly adapted for the backyard garden or small truck farm, for use around the chicken house, in the dairy barn, hog pen, for disinfectants in the home or in hotels, restaurants, theatres and other public buildings.

Tank. 6½ inches diameter, 17 inches long; capacity about 2½ gallons.

Pump. 1¾ inches diameter, 15 inches long; seamless brass tubing.

Nozzle. Our "Perfection" automatic shut-off nozzle.

No. 140G. Junior, Galvanized Tank. Price ea., \$5.00



Hudson Ideal

Sprayer No. 32

The Ideal is a high pressure portable outfit. It is equipped with a regular barrel pump which develops and maintains a working pressure of 200 pounds. Has capacity for two lines of hose if desired. It is a strong, durable machine, very well designed. Because of its portable construction, it is an exceptionally handy outfit for the orchardist or fruitgrower. It is also a great favorite in the stock barns, cattle pens, poultry houses, etc. It is a practical outfit for whitewash, cold-water paints, insecticides, stock dips and remedies, etc. It can be used in a variety of ways throughout the entire year.

Tank. Heavy copper-bearing galvanized, reinforced at top and bottom with channel iron hoops. Easily removed. Capacity 15 gallons.

Frame. Heavy steel tubing.

Wheel. 18 inches diameter, 2½ inch tire; strong, light and rigid.

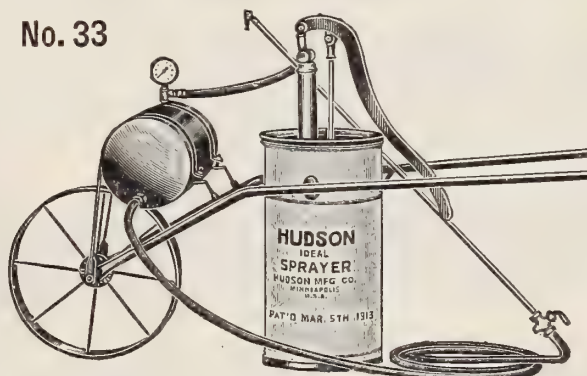
Discharge Equipment. 6 feet of ¾ inch spray hose and a 4 foot ¼-inch pipe extension—total 10 ft., angle Ideal spray nozzle and leakless shut-off.

Shipping Weight. Crated securely, 75 pounds.

No. 32. IDEAL, Galvanized Tank. Price each...\$23.25

HUDSON IDEAL SPRAYER

No. 33



This Hudson Ideal outfit is equipped with a reserve air pressure tank and gauge. Once the desired pressure has been reached, this reserve air chamber enables the operator to maintain an even high pressure with less effort. In fact, the operator can stop pumping and spray several minutes before the pressure is reduced to a point where further pumping is necessary. It will do all the work a Barrel Pump can, and has the added advantage of being so easily portable. One man can operate it alone.

Pump. Regular Barrel Pump. Fastened in top of tank by arched steel support.

Tank. Heavy copper-bearing galvanized or brass sheets reinforced at top and bottom with channel iron hoops. Fitted with malleable castings for attaching to frame. Easily removed. Capacity 15 gallons.

Air Pressure Tank. Boiler iron with joints welded. Tested under pressure of 275 pounds. Fastened to frame by steel straps and supports. Fitted with a pressure gauge reading to 200 pounds.

Frame. Heavy steel tubing reinforced with channel iron cross braces.

Wheel. 18 inches diameter, 2½ inch tire; light, strong and rigid.

Discharge Equipment. 6 feet of ¾ inch spray hose and a 4 foot ¼ inch iron pipe extension—total 10 feet, angle Ideal nozzle and leakless shut-off.

Shipping Weight. Securely crated, 105 pounds.

No. 33. IDEAL, Galvanized Tank.....\$35.75

Fig. 1188.
Weight, 41 lbs.



GOULD'S "Fruitall" Spray Pump

All Working Parts Bronze.

The Fruitall Sprayer is first-class in every respect. While the simplicity of its design allows it to be sold at a very reasonable price, and although lighter in weight and smaller in capacity than the "Pomona," we offer it as a thoroughly serviceable sprayer. The sprayer is held in place in the barrel by an adjustable clamp at

the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches.

Our
List Special
Price. Price.

Fig. 1188.—Pump only with Agitator and Hose Couplings	\$19.20	\$12.00
Fig. 1188.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead of hose, but without Hose..	21.52	13.45
Fig. 1188.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose.....	25.12	15.70
Fig. 1188.—Outfit C.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, fitted in barrel	35.12	20.70
Fig. 1188.—Outfit D.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	37.76	22.35
Fig. 1188.—Outfit E.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose.....	32.80	20.50
Fig. 1188.—Outfit F.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, fitted in Barrel	42.80	25.50
Fig. 1188.—Outfit G.—Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, two 8-foot Iron Extension rods with Brass Stop-Cocks, fitted in Barrel.....	48.80	28.80

Fig. 1100
Weight,
66 lbs.



GOULD'S POMONA Spray Pump

Plunger—Diameter. 2½ inches; stroke, adjustable to 3, 4, 5 inches; discharge, ½ inch hose.

Outside Packed Plungers. No Leather Packings.

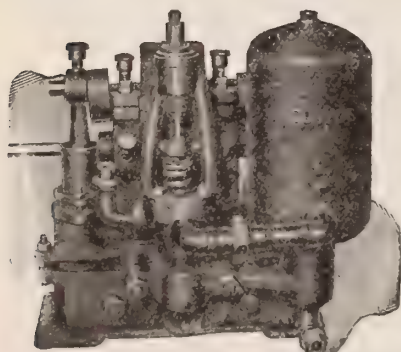
For small orchards of a few acres; a good barrel sprayer that will meet every requirement. The factory has devoted much time to the study of practical barrel sprayers, and it is with the utmost confidence we list the "Pomona" as first in our complete line. All of the working parts are solid bronze.

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, but very effective.

Our
List Special
Price. Price.

Fig. 1100.—Pump only with Agitator and Hose Coupling	\$35.20	\$22.00
Fig. 1100.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead, but without Hose.....	37.52	23.45
Fig. 1100.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose.....	41.12	25.70
Fig. 1100.—Outfit C.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, Fitted in Barrel	51.12	30.70
Fig. 1100.—Outfit D.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	53.76	32.35
Fig. 1100.—Outfit E.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose.....	48.16	30.10
Fig. 1100.—Outfit F.—Pump with Agitator, Hose Bands and Couplings, 2 Mistry, Jr. Nozzles, 2 15-ft. leads No. 1 Spray Hose, fitted in Barrel..	58.16	35.10
Fig. 1100.—Outfit G.—Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-Cocks, fitted in Barrel.....	63.44	38.40

GOULD'S DREADNAUGHT DUPLEX POWER SPRAYER



WITH AUTOMATIC GOVERNOR

This Gould's Duplex Spray Pump is a high grade, medium size, single-acting power spray pump, designed for pressures up to 250 pounds and is fitted with double reduction spur gearing. This gearing permits the pump to be direct-connected to an engine shaft without the use of a jack or extra gearing. The gear ratio is 9 to 1. When operated at the speeds recommended—50 to 67 revolutions per minute—engines with speeds of 450 to 600 revolutions per minute can be used. At a speed of 50 revolutions per minute it has a capacity of 5.30 gallons per minute, and at 67 revolutions per minute, 7.00 gallons.

This pump is equipped with an automatic governor which operates as follows:

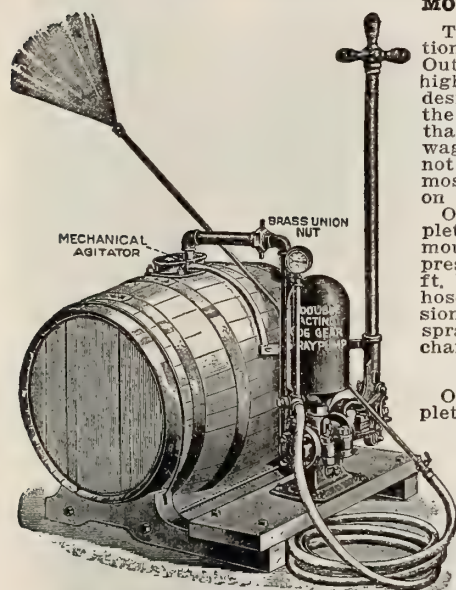
When the pump is in operation and the spray nozzles open, the flow of liquid has free access to the air-chamber and thence to the spray nozzles. Any excess pressure causes a diaphragm to open an overflow outlet which automatically relieves the pressure by allowing the surplus liquid to return to the tank.

The over all dimensions are: Width, 18½ inches; length, 24 inches; height, 19½ inches. This makes a very compact outfit.

Pump with Strainer and Hose Couplings	Cylinders		Suction Hose	Discharge Hose	Approx Weight Lbs.	List Price	Our Special Price
	Diam. Ins.	Stroke Ins.					
	2½	2½	1-in	½-in	210	\$170.00	\$100.00

Double-Acting Spray Pump

MOUNTED ON SKIDS



The general construction of this Spray Pump Outfit cannot be too highly commended. This desirable outfit meets the demand for a pump that can be used in a wagon or cart. It cannot upset. One of the most desirable outfits on the market.

Outfit B—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; one 15-ft. lead ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzle and mechanical agitator.

Price . . . \$54.00

Outfit C—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; two 15-ft. leads of ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and mechanical agitator.

Price \$60.00

Messinger Duster No. A-48



Messinger Dusters are strong and durable, because the various parts and materials of which they are made are of the best, and of proper proportion for the work each performs. It does not require a heavy Duster to distribute a few pounds of fluffy dust over an acre of plants.

The Messinger Duster feeds "sticky" or "heavy" Dust as readily as if it were fluffy. It prepares it. After it is given a thorough beating by the double Revolving Agitators in the hopper, it gradually passes into the Feeding Chamber where it is given a churning action by the Force Feed Spider while it is slowly fed into the Mixing Chamber.

For thorough and economical protection, it is very essential that all nozzles distribute an equal amount of Dust. If one or more rows receive too much dust, there is a loss—not only of Dust, but, in poor protection to the other rows. This loss is avoided with the Messinger Distributor.

The Messinger Duster Distributor separates the prepared Dust Cloud at the Fan and distributes it to each nozzle through individual tubes, where it is under pressure—no chance for it to follow the path of least resistance, as it often occurs when two nozzles receive dust from one main tube.

The Fan blows the Dust Cloud directly into this Distributor, where it is divided or separated into several major and sub-dividers dependent on the number of nozzles it must feed. Price, \$225.00.

THE MYERS POWER SPRAY GUN

LENGTH OVER ALL, 26 INCHES.

Utilizes the Entire Capacity of any Power Spray Pump and Does Away With All Bamboo Extensions, Nozzles and Fittings.

All Working Parts on the Outside. Not Subject to Corrosion. Fig. 1824.



Fitted for ¾-inch Hose Coupling and ¼-inch Pipe. OUR SPECIAL PRICE, \$6.00

THE MYERS JUNIOR POWER SPRAY OUTFIT

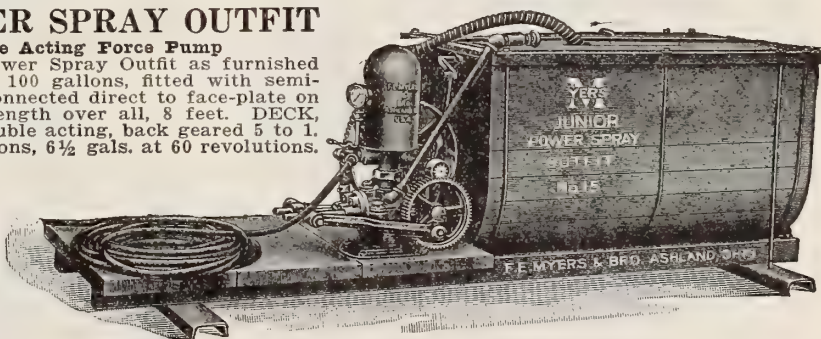
Fitted With 2-Inch Horizontal Double Acting Force Pump

Fig. 1882 illustrates the Myers Junior Power Spray Outfit as furnished complete except the engine. TANK, cypress, 100 gallons, fitted with semi-rotary agitator swung from top of tank and connected direct to face-plate on the pump. FRAME, 3-inch channel steel. Length over all, 8 feet. DECK, space for Engine, 22"x34". PUMP, No. 580, double acting, back geared 5 to 1. CAPACITY, 5 ¼ gals. per minute at 50 revolutions, 6 ½ gals. at 60 revolutions.

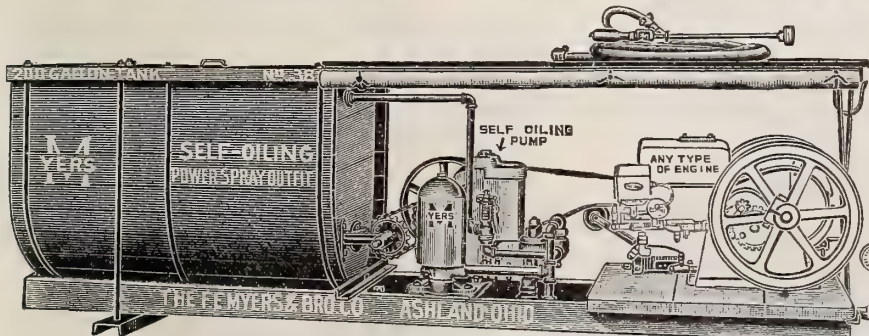
Equipped as Follows: One Myers Spray Gun. 50 feet of ½-inch Myers High Pressure Spray Hose with fittings complete, double cut-off for discharge lines, pressure gauge, agitator, belt tightener, relief valve, strainer and suction hose.

No. 15, Myers Junior Spray Outfit with 100 gal. Tank and No. 580 Spray Pump, belt driven, equipped as shown. \$120.00

No. 2, Engine, 2 H. P., with Magneto. 80.00
Belt for this Rig. 5.00



THE MYERS SELF-OILING POWER SPRAY OUTFIT

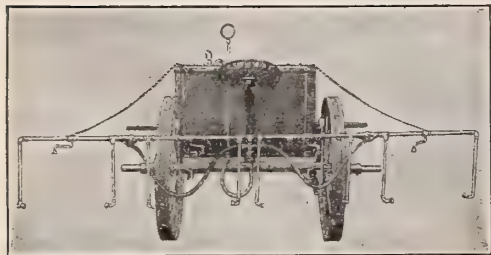


The entire framework is made of channel and angle iron, producing a very stiff frame with the least possible weight. The tank is made of selected cypress and is fitted with Rotary Agitator. The Agitator is driven by Bevel Gears and Link Chain which makes a flexible joint and relieves the tank from all strain. The frame is fitted with two cross channel bars on the underside, which fit over the bolsters of the wagon, preventing forward or backward movement. The cab has heavy curtains for protection of the engine and pump.

Fig. 2193, No. 28, Myers Self-Oiling Spray Outfit, with 150-gallon Cypress Tank, fitted with Self-Oiling 2 ½-inch Duplex Power Spray Pump, equipped as follows: One Myers Spray Gun, 25 feet ½-inch Power Spray Hose, Coupled; Double Cut-Off for discharge lines; Pressure Gauge; Rotary Agitator; Belt

Tightener, Suction Pipe taken from bottom of tank, with cut-off. As shown in illustration. \$250.00
No. 28, Outfit, with 2 H. P. Fuller and Johnson Engine and Belt. 330.00
No. 28, Outfit, with 2 H. P. Fuller and Johnson Engine and Belt, Mounted on Low Down Farm Truck, with Doubletrees and Neck Yoke. 387.00

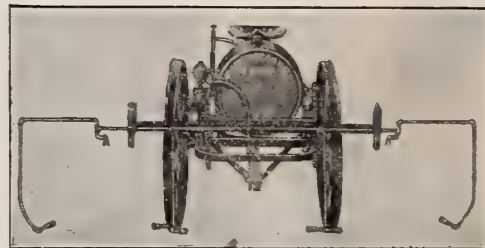
McKENZIE Three and Four Row SPRAYERS



100 Gal., 4 Row, 3 Nozzles to Row

This 100 - Gallon High Pressure Sprayer, the latest addition to the popular McKenzie line, marks another step forward in sprayer construction. It embodies the improvements you want in your high pressure sprayer and is built to give years of satisfactory service.

The New McKenzie 100-Gallon High Pressure Sprayer is regularly equipped with wide evener and neck-yoke, automatic pressure gauge and Nixon or No. 10 boom for spraying four

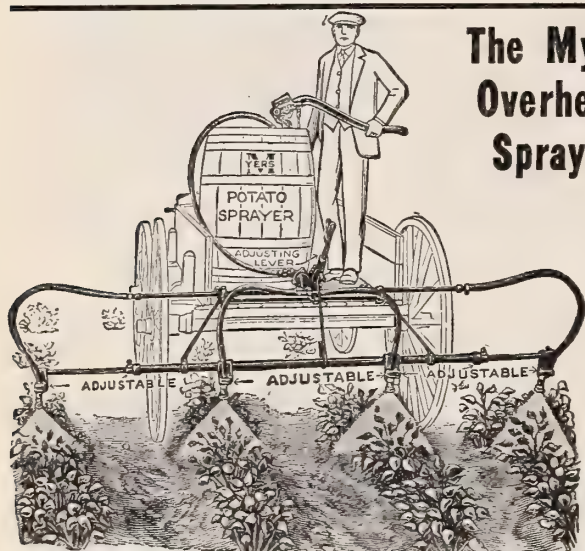


50 Gal., 3 Row, 3 Nozzles to Row

rows with three nozzles per row, or No. 11 boom for six rows with two nozzles to the row. These booms are made of all galvanized iron pipe with $\frac{3}{4}$ -inch and $\frac{1}{2}$ -inch main line with drop pipes of the same size. They can be adjusted to suit

practically all crop conditions and are hinged for passing through narrow gates.

60 gals., 3 rows, 3 nozzles to row.....\$125.00
100 gals., 4 rows, 3 nozzles to row..... 250.00



The Myers Overhead Sprayer

FOR POTATOES, COTTON OR OTHER FIELD CROPS
Nozzles Adjustable to Any Required Height and to Any Width Row.

No. 6, Myers Hand Overhead 4 Row Adjustable Sprayer. Complete with all necessary Hose and Nozzles (Pump and Barrel not included).

OUR SPECIAL PRICE, \$20.00



Germaco Hotkaps

Besides protecting the plant from the elements and from insects, "Hotkaps" are worth their cost alone because they aid in maturing crops earlier. That is the all-important thing to the grower, FOR IT MEANS THAT HE CAN BE FIRST TO MARKET AND SO COMMAND A BETTER PRICE FOR HIS CROP. Thus, "Hotkaps" far more than pay for themselves. They represent one of the best investments a farmer can make. Thousands have proved it; thousands more are discovering it every season.

Price.

100 Pkg. Complete, cont. 100	Hot C's & Gard. Setter, \$4.00
Hot C's & Gard. Setter, \$2.50	1000 Hotkaps.....\$11.50
250 Pkg. Complete, cont. 250	Steel Hotkap Setter.... 2.50

GATOR-HIDE MULCH PAPER

WHAT GATOR-HIDE MULCH PAPER IS— HOW IT WORKS

Gator-Hide Mulch Paper is one of the toughest, strongest, most durable papers made. It is impregnated by a special process with a particular grade of asphaltum which has no harmful effect on soil or plant life.

Unrolled over the proposed plant beds, and anchored by soil or other available material along the edges, Gator-Hide Mulch Paper imprisons all the moisture in the soil. Its black surface catches and retains the sun's heat. This raises the soil's temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Thus, while ample space is provided for the plant, no space is left for weeds, and the nourishment they ordinarily steal from the soil is conserved for the crops you plant.

Type A—18-in. width—300 linear yards to the roll. \$3.50
36-in. width—300 linear yards to the roll. 7.00
Type B—18-in. width—150 linear yards to the roll. 3.50
36-in. width—150 linear yards to the roll. 7.00



Sectional View.



MISTY JR. NOZZLE

THE BEST NOZZLE YET.



The Misty Jr. Nozzle is made from Brass with hardened tool steel disks in discharge cap. The steel disks can be inserted without the least trouble.

This nozzle has been tested under all conditions, and found to give entire satisfaction. It produces a perfect mist and covers a wide area. **This nozzle is in our opinion the best that can be had.** Brass, with extra steel disk.....\$1.00

Can also supply these nozzles with 45-degree angle. Same prices as above.

Extra Steel Disks for Misty, Jr., Nozzle..... 5c.

Extra Caps for Misty, Jr., Nozzle...30c.

BORDEAUX NOZZLE



The Bordeaux Nozzle can be readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle.

An excellent nozzle for white-washing.

Price...\$1.25

VERMOREL NOZZLE



This is an improvement on the old style Vermorel Nozzle spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

Fig. 55—Gould's Vermorel Nozzle, each, One Discharge, \$1.25.

Caps for above, 25c. each.

HOSE COUPLING

Fig. 1284.



BRASS HOSE COUPLINGS, FIG. 1284.

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in 1/2-in. size. Price, each.....60c.

Spray Pump Accessories

LEVER SHUT-OFF COCK, NO DRIPPING

Fig. 64.



Fig. 64—Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off complete. This quick action makes it a practical device for the purpose. Tapped 1/4-inch pipe size. Price, each. \$1.00

LONG SHANK HOSE COUPLING



Fig. 67—Brass coupling, has one end cut 1/4-inch gas pipe and other end shank to wire into hose. Made from solid brass. Price, each...35c.

45° BEND BRASS Y



Fig. 1584—Brass Y with the two branches of the Y bent as shown.

Price.....50c.

Fig 1074 1/2 — Brass Y straight.

Price.....50c.

Fig. 49 1/2.



BRASS Y

Brass Y is cut 3/4-inch. Female Hose inlet, with lateral discharges to fit 1/2 and 3/4-in. Hose Couplings.

Price.....75c.



60° BRASS ELBOW

Fig. 1107—Sixty degree brass elbow, threaded both ends 1/4-inch pipe for use with any nozzle.

Price.....30c.

REDUCING COUPLING

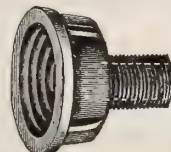


Fig. 65—Coupling small end cut 1/4-inch pipe thread to fit our spray nozzles, large end cut to fit 3/4-inch, 1/2-inch or 3/4-inch male hose coupling.

Price.....30c.

PRESSURE GAUGE

Fig. 30 1/2.



Brass Pin Silvered Dial, with black figures. Up to 200-pound pressure, with stop-cock.

Price—

2 1/2 in...\$3.25

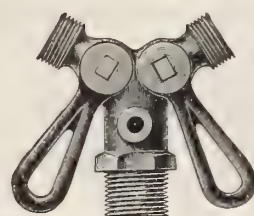
3 in..... 3.75

Pressure Regulating Valve



Designed for controlling the pressure on Power Spray Pumps. All brass with specially Vulcanized Rubber Ball Valve and Brass Seat with ground surface. Can be set to operate against any pressure up to 400 lbs. Spring and adjusting parts all on the outside, no trouble from corrosion. The combination lever permits instant opening to widest point, relieving all pressure.

Myers Pressure Regulating Valve for 3/4" pipe. Price.....\$8.00



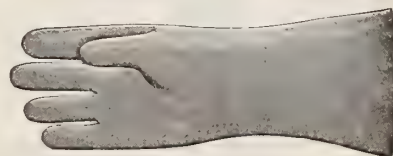
Myers Double Cut-Off

Is fitted for 3/4 or 1/2 inch hose couplings on the discharge ends, and 1 inch pipe thread on the inlet. Price, \$3.25.

HOSE NIPPLES

1/2-in. or 3/4-in. hose, 3/4-in. iron pipe....\$4.00
1/2-in. or 3/4-in. hose, 1-in. iron pipe.... .40
3/4-in. or 1-in. hose, 1 1/4-in. iron pipe... .70
1-in. hose, 1-in. iron pipe..... .60

RUBBER GLOVES



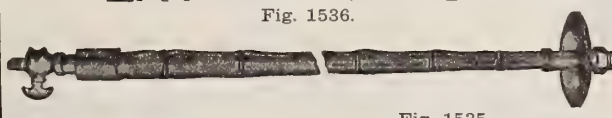
EXTRA HEAVY, ALL-RUBBER, SEAMLESS GLOVES

Just the thing to handle the poisonous chemicals used in the different spraying mixtures. Can be worn with canvas gloves inside or outside.

Price.....\$3.00

EXTENSION SPRAY-RODS

Fig. 1536.



BAMBOO

8 ft. with stop cock....\$4.20
8 ft. without stop cock...3.25
10 ft. with stop cock....4.75
10 ft. without stop cock...3.75

Fig. 1535.

Fig. 480—8-foot pipe extension, with couplings.....\$.65

Fig. 1535—8-foot pipe extension, with stop-cock..... 1.65

GRITCO GARDEN HOSE

The Kind That Gives Long Service



Gritco has features that recommend it to discriminating purchasers. It will not kink. Drag it around and you cannot separate the cover from the hose, because the rubber is seamless and tough. The wall of the hose is reinforced with strong cords, braided on, which are firmly embedded in the rubber and cannot come loose. This affords great strength for the highest water pressures. Gritco Garden Hose is flexible, strong and long lasting. $\frac{3}{4}$ inch, per foot.....\$2.00

HOSE FOR SPRAY PUMPS

We do not recommend a cheap Hose for spray work. Large sprayers handling a high pressure should use our No. 2, $\frac{1}{2}$ -inch spray Hose. This Hose is made especially for this work. It is extra strong and is wire wound, adding to its strength, and insuring long life, as the wire also protects it from rough usage.

The No. 1, $\frac{1}{2}$ -inch Spray Hose will be found satisfactory for the various hand pumps.

Spray Hose is made especially for spray pumps, being so constructed that spraying solutions have the least possible effect on them.

$\frac{1}{2}$ -inch Spray No. 1.....\$.16
 $\frac{1}{2}$ -inch Spray No. 2, wire wound.....\$.18

GIANT POWER SPRAY HOSE

Made for the Highest Pressure

50-foot lengths, per foot.....\$.30
 1-inch, 3-ply Hose.....\$.30

1-inch, Hard Rubber Suction Hose.....\$.40

2-inch, Wire-Lined Suction Hose.....\$.75

$\frac{1}{2}$ -inch Hose comes in 10, 15, 25, 30 and 50-foot lengths. We cannot cut other lengths. 2-inch Hose comes in 5, 10 and 20-foot lengths.

HOSE COUPLING



Fig. 504.

These Hose Couplings are made from brass, thoroughly machined, and are in perfect shape. The $\frac{3}{4}$ -inch are made from spun brass, and are very light and neat, assuring a large flow of water, as the opening is not reduced.

Fig. 504—Brass Hose Couplings:

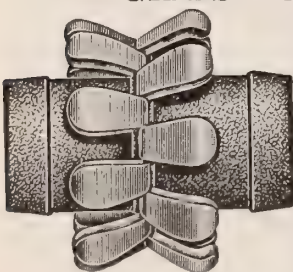
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$
Complete....	30c.	30c.	35c.	\$1.00
Female Half	20c.	20c.	25c.	.75
				1.30

SHERMAN'S BRASS HOSE CLAMPS



Fig. 1272, each, $\frac{1}{2}$ -inch.....\$.05
 Brass Hose, $\frac{3}{4}$ -inch.....\$.05
 Clamps, 1-inch.....\$.15

GIBBS HOSE MENDER



In the Gibbs Hose Mender we believe that we have a device that possesses some unusual points of excellence. The Gibbs has a cast tube, which supplies a solid foundation for the steel fingers and which will withstand more abuse and hard knocks than a tube of lighter weight and construction.

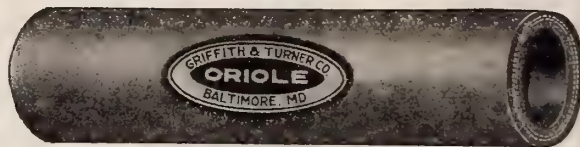
The steel fingers of the Gibbs Mender are scientifically designed to grip the hose without injury to the fabric, and when properly applied, are sure to hold the ends of the hose in position.

The convenience of this mender lies in its simple application. Simply cut the hose apart where a leak occurs, insert the tube and hammer down the steel fingers.

Price, each, $\frac{3}{4}$ inch.....\$.10
 Price, dozen, $\frac{3}{4}$ inch.....\$ 1.15

ORIOLE GARDEN HOSE

LONG LASTING—FLEXIBLE—WILL NOT KINK



The rubber used in its construction is a high grade stock that will not rapidly deteriorate with age. The rubber lining or tube is made seamless and ample strength as given the hose by a braided cotton jacket directly applied by a special machine. The hose is protected against external wear by a tough, resilient, rubber cover.

$\frac{3}{4}$ inch, per foot.....\$.14
 $\frac{1}{2}$ inch, per foot.....\$.10

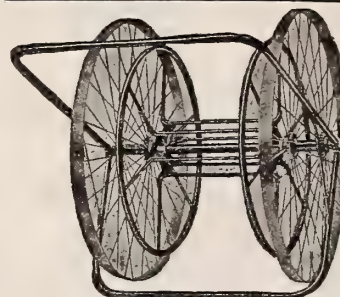
HOSE REELS

PARK REEL No. 21

A tubular iron reel and frame mounted on steel wheels, tires $1\frac{1}{2}$ inches.

Height of wheels.....28 in.
 Outside width over all. 26 in.
 Shipping weight.....45 lbs.
 Capacity, $\frac{3}{4}$ -in. hose. 200 ft.
 Capacity, 1-in. hose..100 ft.

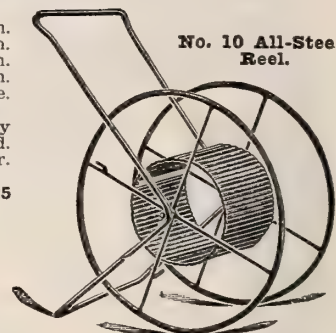
Price.....\$15.00



Diameter of wheels.....22 in.
 Diameter of drums.....9 in.
 Width between wheels..10 in.
 Length of handle.....28 in.
 Capacity, 100 ft. $\frac{3}{4}$ -in. hose.
 Weight about 17 lbs.

The large wheels roll easily over rough or soft ground. Nothing to get out of order.

Rigid, Durable, Attractive.
 Price, No. 10, All Steel..\$3.25



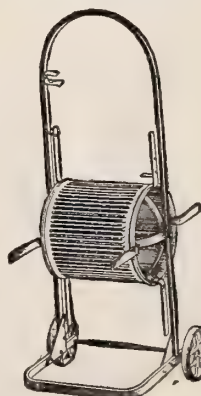
No. 10 All-Steel Reel.

"VICTOR" REEL

is constructed with channel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy corrugated steel.

Weight, 12 $\frac{1}{2}$ lbs., bundled for shipping. Capacity, 100 feet of $\frac{3}{4}$ -inch rubber hose.

Price.....\$2.00



"Victor"

THE No. 20 TUBULAR

Wheels, 24 inches; weight 20 lbs. Capacity, 150 feet; $\frac{3}{4}$ -inch hose.

Price.....\$6.00

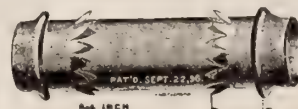
No. 200 ALL-STEEL REEL

Diameter of wheels, 7 inches. Diameter of reel, 20 inches. Diameter of drum, 9 inches. Width of drum, 10 inches. Height of handle, 39 inches. Capacity, 100 feet $\frac{3}{4}$ -inch hose. Weight, about 25 lbs.

The weight of the hose is on the wheels, not on the hands when being moved about. This reel is light, yet rigid and durable.

Price.....\$5.00

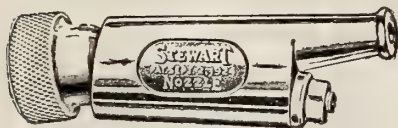
COOPER HOSE MENDER



No clamps necessary. Impossible to pull out of hose.

Each, 10c.; dozen.....\$1.00

Rain King Hose Nozzle



The First Perfect Hose Nozzle A New Patent

The world has never seen the equal of this wonderful hose nozzle. Picture any conceivable adjustment from a long, solid stream to the finest mist spray—and only a quarter turn of the nozzle from one extreme to the other.

This is the only hose nozzle without moving parts to wear, clog or give trouble. The different sprays are obtained by a new and unique principle. Throws more water farther than any other hose nozzle made.

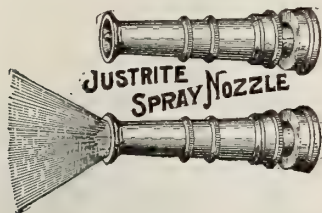
Combines unusual simplicity with greater efficiency. **Wear-proof, leak-proof and guaranteed forever.**

The Rain King Hose Nozzle is packed in individual boxes.

Weight, 10 ounces.

Price, each.....\$1.50

Hose Nozzle



This nozzle is made from solid brass and is adjustable for all kinds of spraying, from solid stream to the finest spray, or can be shut off entirely.

¾-in. Justrite Nozzle..... .75c.

Parcel Post Weight 1 Pound.

The Fountain Shower

A Hose Nozzle with the "Mist-Like Spray"



This shower sprinkler is the best thing for attaching to the hose to be used like a watering pot. It gives a fine gentle shower and does not injure the plants as a heavy stream might do.

P. P. Weight 1 lb.

Price40c.

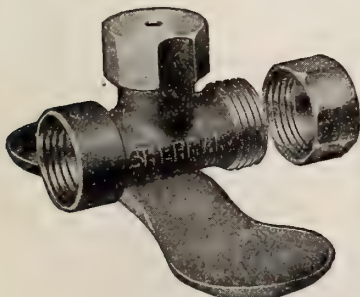


Fig. 75

Sherman Portable Spray Head

For connecting with hose in series to create a movable and flexible lawn sprinkling system. **THE MOST EFFECTIVE SPRAY HEAD MADE, AND AT THE LOWEST PRICE**

INGENIOUS SPRAY HEAD CONSTRUCTION produces a beautifully perfect mist-like spray, evenly covering wide area, yet conserving water volume to a degree that permits a greater number of heads to be used on normal pressures without reducing volume on those farthest from water supply.

Price, each\$.75

The Rain King



Absolutely nothing to get out of order.

Set instantly as a revolving or stationary sprinkler.

Distributes water perfectly at any pressure, either revolving or stationary.

Nozzles adjust immediately to a fine spray or coarse spray, with any pressure.

Waters a greater area than any other sprinkler, under any water pressure.

Waters a small or large circle, from 8 to 80 feet in diameter. Instantly adapted to surface to be covered.

Waters strips, corners or any odd-shaped places, or sprays trees, shrubs, flower beds, etc., without "slopping over" on walks or adjacent buildings.

Lacks the troubles common to the ordinary sprinkler.

Runs fast or slow, as wanted.

Price.....\$3.50

Revolving Sprinkler



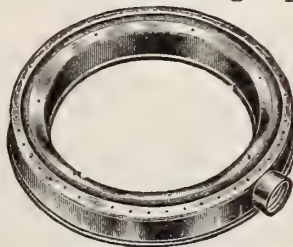
The Sprinklers are compactly and strongly made, with phosphor bronze bearing.

Eureka Sprinkler,

12 in. high

\$2.50

Fountain Ring Sprinkler



MADE OF HEAVY BRASS.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price 85c.

Majestic Rain King Sprinkler



Majestic Rain King's height and length of arms are exactly right for greater power — throws more water and throws it farther on the same pressure than any other sprinkler.

Because of this extra height it can be placed in flower and vegetable beds, throwing a spray well out over the tops of the plants.

Like the famous Standard Rain King, this

brand new Majestic throws any stream, whirling or stationary, with nozzles instantly adjustable for distance, direction and kind of spray—rainbow mist, fine stream, heavy shower or soaking downpour. Runs fast or slow—waters small, medium or large circles and operates on low pressure. Beauty, efficiency and ornamental value are incorporated in this ace among sprinklers

ORNAMENTAL BIRD BATH

Majestic Rain King, with its sturdy Brass Columns, beautiful brass fittings and charming Bird Bath, will add a delightful touch to any lawn or garden.

MAJESTIC A

Height.....15 inches
Width.....9¾ inches
Weight.....7 pounds

Price \$6.50

MAJESTIC B

Height.....24 inches
Width.....9¾ inches
Weight.....9½ pounds

Price \$7.50

Mammoth Rain King Sprinkler

For golf courses, parks, large estates, etc. Connections, uprights, arms and nozzles are all over-size and will throw more water over a larger surface and distribute it more evenly than any other sprinkler.

Supplied with ¾ inch hose connections. Arms of solid brass tube ¾ inch in diameter. Base of new roller type, glides lightly over the turf, making the Mammoth as easy to handle as the smallest sprinkler. Bearings all over-size of finest non-corrosive bronze and are pressure-free. At a single setting the Mammoth

will sprinkle an area up to 6,000 feet. Discharges 1,000 gallons of water per hour on 45-pound pressure. Height 3½ feet. Spread of arms 4 feet. Packed one in a shipping carton. Shipping weight 32 pounds.

Price, each, \$22.50



U. S. PLANT TUBS

These plant tubs are made from best grade cedar, with strong iron handles and feet. Just the thing for Palms, Rubber Plants, etc. Painted Green with Black Trimmings.

Painted Green.

No.	Outside Diameter.	Top Depth.	Price.
1.....	12	10 3/4	\$2.30
2.....	13	12 3/4	3.00
3.....	14 1/2	14 3/4	3.75
3 1/2.....	16 1/2	15 3/4	4.85
4.....	19 1/2	16 5/8	5.25
5.....	22 7/8	18 1/2	6.80



RICHMOND STYLE

The Richmond style fills a long-felt want for a cheap type of plant tub and is being used by many large florists in place of earthen pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish.

Size	Inside Top Diam. Inches.	Inside Bot. Diam. Inches.	Inside Depth Inches.	Thickness of Stave Inches.	Price Each.
No. 3.....	8	6	8	3/8	\$.60
No. 4.....	9	7	9	3/8	.65
No. 5.....	10	7 1/2	9	7/16	.75
No. 6.....	11	8 1/2	10	1/2	.95
No. 7.....	12	9	11	1/2	1.15
No. 8.....	13	10	12	1/2	1.45
No. 9.....	14	11	13	5/8	1.60
No. 10.....	15	11 1/2	14	5/8	1.80

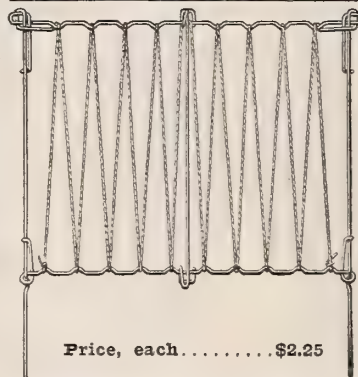
CEDAR PLANT TUBS

PLANT BOXES—Galvanized Green Finish

Sub-irrigating device insures uniform distribution of water and air throughout the entire length of box. Best results obtained by putting gravel, charcoal, moss or something of the kind in bottom of box up level with top of horizontal water conductor. Then fill with rich earth. Water through upright tube.



Size 24"x8 1/2"x7 1/4".....	\$1.25
30"x8 1/2"x7 1/4".....	1.60
36"x8 1/2"x7 1/4".....	2.40



Price, each.....\$2.25

Timesaver SWEET PEA, GARDEN PEA AND VINE Trellis

Dimensions 5 feet by 5 feet over all. Stands 4 feet above ground when placed. Frame made of 1/4 inch Galvanized cold drawn steel, Green Rope center. Several can be used end to end for long rows. Easily assembled in a few minutes without use of tools. Various parts snap solidly together and center is then strung on the frame. Very quickly taken apart again, if desired, for storage purposes.

Bird's IMPROVED NEPONSET Flower Pots



The Improved Bird Neponset Flower Pot is now ready for the truck gardener, the florist—every grower of plants on a large or small scale.

Month of testing under actual growing conditions have proven that this Improved Pot can be used successfully when seedlings are to be carried from six to eight weeks.

	Per Doz.	Per 100	Per 1000		Per Doz.	Per 100	Per 1000
2 1/4 in.	\$.10	\$.50	\$3.75	4 in.	\$.25	\$1.15	\$9.00
2 1/2 in. ....	.12	.60	4.25	5 in. ....	.30	1.60	14.00
3 in. ....	.15	.70	5.75	6 in. ....	.40	2.25	19.25
3 1/2 in. ....	.20	.85	7.25				

These sizes carried in stock.

Packed 500 to case on special orders.

New Way to Grow Vegetables, Flowers and Potted Plants!



If you feed your potted plants, flowers and vegetables on Plantabbs each week or ten days they'll grow lots better than any fertilizer will make them grow. Plantabbs are a complete food in odorless tablet form—guaranteed to contain 11% nitrogen (ammonia), 15% phosphoric acid and 20% potash.

Include in your next order. Price: 30 tablets 25c.; 75 tablets 50c.; 200 tablets \$1.00; 1000 tablets \$3.50.

FULTON'S
Plantabbs
 ODORLESS PLANT FOOD TABLETS

STIM-U-PLANT

PLANT STIMULANT TABLET

1. Gives an EXACT FEEDING UNIT—No guesswork.
2. Provides for ABSOLUTE CONTROL of feeding, eliminating the danger of overfeeding.
3. No MESSY MIXING.
4. No unpleasant ODOR.
5. IS EASIEST to APPLY.
6. Insures MAXIMUM EFFICIENCY because the plant gets all the food-value—none being lost through scattering where not available to the plant, leaching and run-off of surface soil-water.



7. Makes REPOTTING of house plants UNNECESSARY, as it replaces the food withdrawn by the growing plant.

Because of its ready solubility, **STIM-U-PLANT** can easily be used as a liquid manure, by dissolving the tablets in water at the rate of four to the gallon. Small size, 30 tablets...\$0.25 Large size, 100 tablets... .75

WATER TRUCKS AND COMBINATIONS WITH STEEL WHEELS

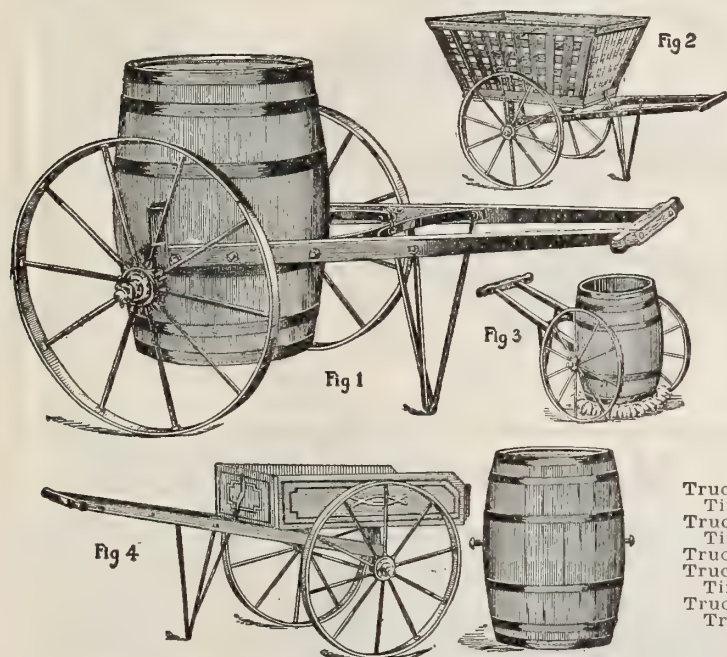


Fig. 1 represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

Fig. 2 shows Truck with Leaf Rack Attachment. Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached. Dimensions: Height of Wheels, 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2½ in.; Width Tire, Steel, 1½ in., 2½ in., 3½ in.; Wood, 1½ in., 2½ in., 4 inches.

Box Inside Measure: Width, 22½ in.; Length, 24 in.; Height, 8½ in. Box has tail door.

Prices	Price
Water Truck, with Regular 1½-inch Tire Steel Wheels	\$13.00
Water Truck and Barrel	18.00
Water Truck and Box	16.00
Water Truck, Barrel and Box	21.00
Sprinkling Attachment	6.00
Leaf Rack	9.00
Barrel	5.00
Box	3.20
Trunnions, per pair .....	.90

Trucks with 2½-in. Tire Steel Wheels, add to regular Tire Truck .....	.80
Trucks with 3½-in. Tire Steel Wheels, add to regular Tire Truck	1.50
Trucks with regular 1½-in. Tire Wood Wheels	13.00
Trucks with 2½-in. Tire Wood Wheels, add to regular Tire Truck .....	.80
Trucks with 4-in. Tire Wood Wheels, add to regular Tire Truck	1.50

Extra Truck Wheels

	Price
1½-in. Tire Wood or Steel Wheels, each	\$3.00
2½-in. Tire Wood or Steel Wheels, each	3.50
3½-in. Tire Steel Wheels, each	3.75
4-in. Tire Wood Wheels, each	3.75
Axles, with Trunnion Holders, each	2.50

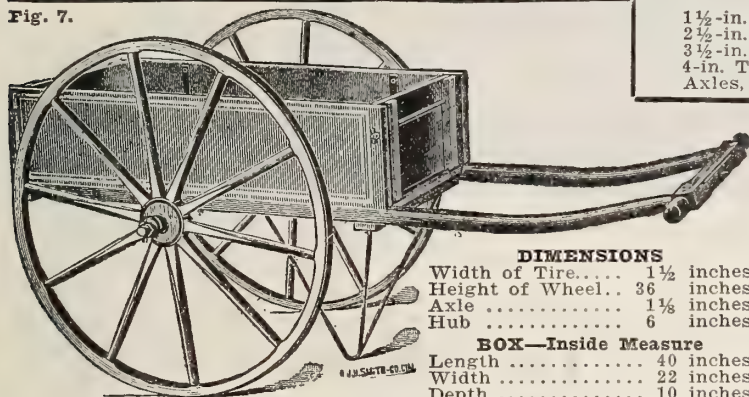


Fig. 7.

DIMENSIONS	
Width of Tire	1½ inches
Height of Wheel	36 inches
Axle	1½ inches
Hub	6 inches
BOX—Inside Measure	
Length	40 inches
Width	22 inches
Depth	10 inches

BALTIMORE PUSH CARTS

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

Price, \$16.00

Extra Wheels, Retail, \$3.25 Each

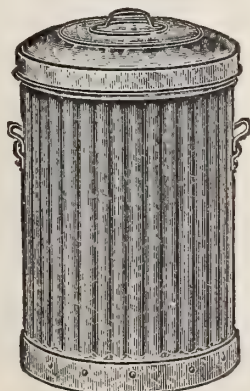
WHEELBARROW LEAF RACK ATTACHMENT

Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity, 10 bushels; made of galvanized wire, bolted to a wooden base.

Price, \$5.00

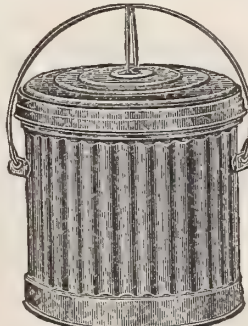


ASH CANS



HEAVY ASH CANS	
No. 171—16 Gallons	\$4.00
No. 181—20 Gallons	4.50
No. 191—24 Gallons	5.00
No. 201—29 Gallons	6.00

GARBAGE CANS



GARBAGE CANS	
No. 301—2¼ Gallons	\$.65
No. 311—4¼ Gallons .....	.80
No. 321—6 Gallons	1.00
No. 331—8½ Gallons	1.20

LIGHTER ASH CANS	
No. 651—10 Gallons	\$1.15
No. 661—12 Gallons	1.25
No. 671—20 Gallons	1.50

DUST PROOF COAL ASH SIFTER

This Ash Sifter saves coal and is dust-proof. It is made from extra heavy galvanized sheets heavily wired and braced and equipped with a cover at top which prevents the dust from escaping. The revolving cylinder is made from extra heavy galvanized wire mesh, operated by handle or crank equipped with wooden grip. The lip at the end of sifter allows the coal to drop directly into the hod. A strong hook holds the hod securely in place.

Price, \$3.00

Monitor Cart No. 53

HEAVY PATTERN



The Monitor Construction. The frames of the bodies are made of special carbon steel, riveted together with best Norway rivets. It is very light and strong, with durable first quality basswood box inside, and have oil-tempered half elliptical springs. The leg being V-shaped and pivoted at its two extremities to the bodies. forms an effective handle brace.

They are especially adapted to the use of manufacturing or mercantile business, and are indispensable to grocers, bakers, laundries, printers, painters, plumbers, paper-hangers, carpenters, tin smiths, gardeners and general family uses.

No. 53—Box 40x26x9½ inches. 30-inch wheels. 3/16-inch spokes. Weight, 110 pounds.

PRICE, \$24.00

Monitor Cart No. 23

This cart is especially designed for convenience. It is nicely made, the body is finished in green nicely striped and varnished, the gear is finished in red.

The frame of bodies are made of special carbon steel, riveted together, the bodies are large, giving ample room for a large load.

No. 23 MONITOR—Box 39x20½x9½ inches. Capacity, 600 pounds. 30-inch wheels. 3/16-inch spokes. Weight, 80 pounds.

PRICE, \$21.50



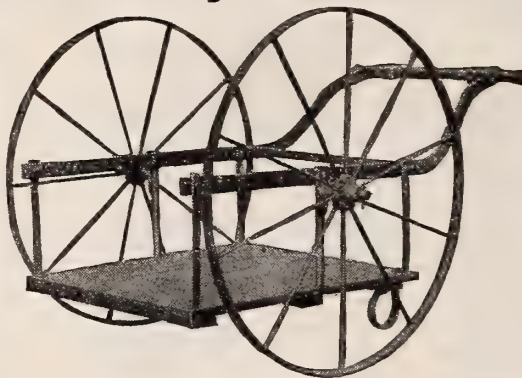
LOCKS

**ALL THESE LOCKS ARE
TESTED BEFORE
LEAVING FACTORY**

Special
Price,
Each

4031—Pressed steel, brass plated, with 2 keys.....	\$.75
6160—Green enameled, with 2 keys.....	.25
4012—Wrought metal, self-locking, with 2 keys.....	.30
1903—High grade bronze, with 2 flat keys.....	.40
1902—Bronze metal case, with 2 keys.....	.45
4067—Seamless steel shell, with 2 keys.....	.30
16022—Wrought steel, six levers, with 2 keys.....	.25
1904—Highest grade brass case, with 2 keys.....	.55
16034—Wrought steel, eight levers, with two double fitted drilled barrel keys.....	.55
9902—Mail lock, no chain.....	.55
9902—Mail lock, with chain.....	.60

Handy Low Platform Cart



Crated for Shipment.

Shipping Weight, 100 lbs.

PRICE, \$11.50

A handy cart for Farm and Dairy use. The low-down platform makes loading and unloading easy. It will carry five milk cans, water barrel or farm produce in sacks. The parallel steel bands on the sides and wooden back rest make possible a wider range of use and permits carrying small packages or merchandise.

SIZE OF PLATFORM
27 x 30 inches.

Woodwork painted red, wheels and iron work black.

Merimac Cart No. 132



This cart is built especially for country use, where there are not any pavements, and a three-wheel cart is not necessary. In the construction it is just as high-grade as other carts listed and will be found a very useful addition on every place. The running gear is made of steel, the wheels are of the bicycle pattern, steel spokes, electrically welded tires and malleable hub, this construction gives the greatest strength.

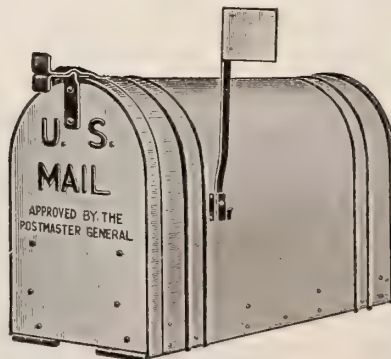
The springs are so constructed and arranged as to carry the load in a way that makes the cart easy to push.

Capacity, 250 lbs.
Weight, 55 lbs.

Body is finished in green, nicely striped and finished in red.
Box 39x20½x8 inches.
26-inch wheels.

OUR SPECIAL PRICE, \$14.25

The Deshler R. F. D.



Top and Sides—Made of No. 20 gauge galvanized steel, with beading reinforcements, front edge curled and wired.

Door—Made of No. 18 gauge galvanized steel, the bottom edge double back upon itself for a distance of three inches. Hinged to the bottom with two heavy 6-inch steel galvanized "T" strap hinges. Swings downward freely and operates with ease. Fits snugly over the curled edge of opening and is weather proof.

Bottom—Made of No. 20 gauge galvanized steel and is framed into a reinforced construction consisting on sides and bottom of 1-inch by 1/16-inch strap steel and on the front section of 1-inch angle iron.

False Bottom—Made of No. 22 gauge galvanized steel, corrugated lengthwise, fitting immediately above the regular bottom.

Inside Measurements—23½ inches long, 13¼ inches high, 11 inches wide.

Weight—350 pounds per dozen, packed in single cartons.

OUR SPECIAL PRICE \$3.75 EACH

It will pay you to use this insecticide in green-houses and on potted plants.

This insecticide destroys insects in poultry-houses and homes.

LEMON OIL COMPANY'S STANDARD

Soluble **INSECTICIDE** in Water

NO DISAGREEABLE ODOR

THIS INSECTICIDE

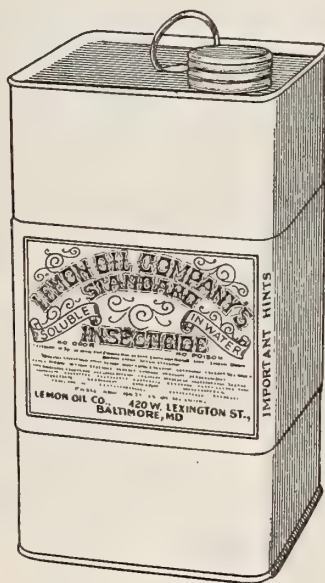
is death to pests—is safe to plants—is harmless to user—is low in price—is free from disagreeable odor.

We recommend Lemon Oil Co.'s Standard Insecticide. It is used by the most prominent florists and seedsmen to destroy scale, Mealy Bug, Rust, Aphids, Caterpillar, etc., on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders—especially for indoor use. Being Poisonless, it is not dangerous to use.

This will be found an excellent wash for dogs and other animals; it relieves Mange, destroys Lice and other insects, and gives the coat a beautiful, glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy Lice and other insects in poultry houses.

It will also kill Roaches, Ants and other insects that infest houses.



NO POISON

DIRECTIONS FOR USE

For Mealy Bug.—½ Pint Standard Insecticide to 4 to 6 quarts of luke-warm water or 1 tablespoonful to 2 cups of luke-warm water. When dipping for this insect the plants should remain in the liquid from 10 to 15 seconds and kept in continual motion. When syringing use the finest sprayer and apply the liquid with force.

For Brown and White Scale on Palms, Rubber Plants, etc.—½ pint Standard Insecticide to 4 quarts warm water or 1 tablespoonful to 2 cups warm water, applying with sprayer or sponge.

For Thrip, Red Spider, Caterpillar, Black and Green Fly.—½ pint Standard Insecticide to 2 or 3 gallons of water or 1 tablespoonful to 3 or 4 cups water. Either spray or dip.

For Destroying Mites.—½ pint Standard Insecticide to 4 or 6 quarts of water. Water the plants with liquid 2 or 3 times at intervals of 6 days.

For Destroying Ants.—½ pint Standard Insecticide to 1 gallon water. Well water their nests and runs several times in the course of a few days.

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dogs and Other Animals.—1 tablespoonful of Standard Insecticide to 1 cup warm water; rub well into the hide letting lather remain a few minutes.

For Destroying Lice and Other Insects in Poultry Houses.—1 part Standard Insecticide to 10 parts water.

For Destroying Roaches Ants and Other Insects in Houses.—1 part Standard Insecticide to 5 parts water.

PRICES:

½ Pint	\$.35
1 Pint .....	.60
1 Quart	1.00
½ Gallon	1.75

1 Gallon	\$ 3.00
5 Gallons	12.00
10 Gallons	22.50

Directions on every Can.

POISON

KILL-WEED

POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR

By Analysis It Has Been Found There is No Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. **KILL-WEED** not only kills weeds but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. One gallon **KILL-WEED** will make 30 gallons treating liquid when mixed with water. One man with a sprinkling can in one hour can do as much or more than six men could do in one-half day, and do the work better.

Judgment should be exercised in using **KILL-WEED**, as it is impossible to give full directions to suit every case. If the weeds are large and strong, the solution should be made stronger than for ordinary grass and weeds. They should be cut down so that the solution can reach the roots.

1-Quart Can.....	\$0.50
½-Gallon Can.....	.90
1-Gallon Can.....	1.50

5-Gallon Can.....	\$ 7.00
10-Gallon Can.....	13.00
1 Barrel, per gallon.....	1.00

NO CHARGE FOR CONTAINERS

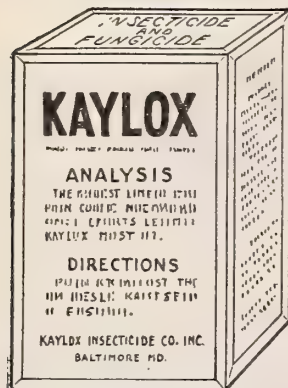
FULL DIRECTIONS WITH EVERY CONTAINER

WRITE FOR SPECIAL CIRCULAR

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

TRADE **KAYLOX** MARK

Registered in U. S. Patent Office.



INSECTICIDE AND FUNGICIDE

KILLS INSECTS AND PREVENTS BLIGHT

KAYLOX is adapted for spraying for late broods of Codling Moth on Apples, for Potato Beetles, most Caterpillars and many Leaf-eating insects on fruit and other trees, Tomatoes, Grapes, Currants, Celery, Cabbage, Cauliflower and many other Plants.

A preventive of many Blights and certain Fungous diseases.
Used as a general spray—1 pound to 10 gallons or 5 pounds to 50 gallons of water.
For Potatoes, Bitter Rot and Blotch on Apples. Use 1 pound to 7½ gallons or 6½ or 7 pounds to 50 gallons of water.

Not to be used for late Spring or early Summer application on Apples, and not to be used on Peaches or Japanese Plums after blooming.

CONTAINS {
Active Ingredients:
Dry Lead Arsenate, not less than.....30.0%
Copper (Cu) not less than.....15.0%
Inert Ingredients:
Not more than.....55.0%

KAYLOX IS A POWDER, NOT A PASTE
HIGH FREIGHT RATES make it imperative that you buy **KAYLOX**, a highly concentrated spraying material, as you then do not have to pay freight on a preparation that is 50% water.

KAYLOX never spoils, **KAYLOX** never freezes, **KAYLOX** never becomes worthless, **KAYLOX** is always at your service, **KAYLOX** should be used, because it is your best insurance for a full crop.

KAYLOX is the outcome of many years of development in the use and manufacture of insecticides and fungicides. It meets the requirements of the largest growers as well as the small home gardener. **KAYLOX** is in convenient size packages.

½ Pound makes 5 gallons of spray \$.30	10 Pounds make 100 gallons of spray \$ 4.50	100 Pounds make 1,000 gallons of spray \$35.00
1 Pound makes 10 gallons of spray .55	25 Pounds make 250 gallons of spray 10.00	
5 Pounds make 50 gallons of spray 2.50	50 Pounds make 500 gallons of spray 19.00	WRITE FOR SPECIAL CIRCULAR.

LIME SULPHUR SOLUTION

The universally accepted spray material for dormant use is lime sulphur solution. Chemically made lime sulphur solution has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is especially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

1-qt. Can.....\$.30	5-gal. Can.....\$3.00	Drums about 50 gal., per gal.....\$.20
½-gal. Can......55	10-gal. Can.....5.00	
1-gal. Can......90	30-gal. Drums, per gallon......22	

DRY LIME SULFUR

Dry Lime Sulfur is the most valuable new spraying product that has been developed in recent years. For a long time Lime-Sulfur Solution had been the standard dormant and summer spray for apples, pears, plums and many other tree fruits. Orchardists are familiar with the disadvantages connected with the use of Lime-Sulfur Solution. These include heavy handling of barrels, losses due to leakage, crystallization and freezing and freight on water.

This Dry Lime-Sulfur is a true Dry Lime-Sulfur. It is not a substitute for Lime-Sulfur Solution, but is standard 33° Baume Lime-Sulfur Solution in dry powdered form. It dissolves readily in water and will control insects and diseases just as effectively as Lime-Sulfur Solution.

Dry Lime-Sulfur is an effective remedy for San Jose and Oyster-Shell Scale, Peach-Leaf Curl, Peach Blight, Peach Twig Borer, Blister-Mite, Apple and Pear Scab, Brown Rot of Apricot, Powdery Mildew of Apples, Red Spiders, Mites and Thrips of Citrus fruits.

200-lb. steel drums .....\$22.00	10-lb. cans\$ 2.00
100-lb. steel drums .....12.00	5-lb. cans .....1.25
50-lb. steel drums .....7.00	1-lb. cans .....30
25-lb. steel drums4.00	

The Complete Dormant Spray

Pleasant to Use.

Reduces Sprayer Troubles.

Prolongs the Life of Your Sprayer.

Spreads into Cracks and Crevices.

Saves Half the Labor of Spraying

—One spray tankful of dilute Scalecide goes as far on your trees, as two spray tankfuls of dilute lime-sulphur or two and one half spray tanks of diluted oil emulsion.

Let **SCALECIDE** be your dormant spray. Then you will know that you have done all that can be done at that particular time by any dormant spray or combination of sprays. Fall spraying with **SCALECIDE** controls pear psylla and peach leaf curl. Spring application controls aphids, pear thrips, leaf minor, case bearer and leaf roller. Either fall or spring spraying with **SCALECIDE** controls scale, bud moth, European red mite, fungus or blight cankers from which are spread fire blight, collar rot and root rot. And in addition to controlling these insects and diseases, year after year use of **SCALECIDE** invigorates the trees.



A 50-gal. barrel of Scalecide sprays the same trees, until they drip, as three and one-half barrels of lime-sulphur.

PRICES

A Size for Every Need

One gallon makes 16 gallons of spray.
1 qt. can...\$.70
1 gal. can...1.60
5 gal. can...6.00
10 gal. can...10.00
15 gal. drum...13.50
30 gal. drum...24.50
50 gal. bbl...32.00

Refund for Drums Returned

15 gal.....\$2.00
30 gal.....2.50
50 gal.....3.00

SCALECIDE

COPYRIGHT 1922 **THE COMPLETE DORMANT SPRAY** B.G. PRATT CO.

SCALECIDE



ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids. It has also been shown to have considerable fungicidal value both when used alone or used in combination with lime-sulphur.

Arsenate of Lead is prepared in powdered form. The powdered form can be used in liquid sprays. The powdered form is also used for dusting.

The principal insects for which Arsenate of Lead is used are: Apple-maggot, brown-tail moth, bud-moth, cankerworm, codling moth, fruit-tree leaf roller, gypsy moth, tent caterpillar, pear slug, curculio, etc.

Directions: 1 to 1½ lbs., powder to 50 gallons of water.

Powdered Form.

1-lb. pkg., per lb.25c. 4-lb. pkg., per lb.20c.
48 lbs. pkg., per lb.18c.

ARSENITE OF ZINC

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead.

Directions: 1 to 1½ lbs. powder to 50 gallons of water.

First—Apply as soon as eggs begin to hatch. For spraying use at rate of two pounds to the acre—this may require one or two pounds or more of the powder to fifty gallons of water depending upon the quantity of liquid distributed per acre by the spraying outfit. The spray tank should be partly filled with water and the powder sifted in slowly while the agitator is running.

Second—Make second application ten days to two weeks later in order to cover new growth.

Third—Make third application ten days to two weeks after second.

1-lb. pkg., per lb.25c. 4-lb. pkg., per lb.21c.
48 lb. pkg., per lb.19c.

CALCIUM ARSENATE

Orchard Brand Calcium Arsenate, being manufactured by scientifically trained chemists of long experience, under rigorous systems of control, is uniform both chemically and physically. Containing, as it does, not less than 41% of arsenic in pentoxide form.

It is used largely for dusting, especially for Mexican Bean Beetles.

1-lb. pkg., per lb.15c. 4-lb. pkg., per lb.13c.
48 lbs. pkg., per lb.12c.

RED ARROW INSECT SPRAY

Red Arrow is an effective, economical, and non-poisonous insecticide, and marks the greatest advance in agricultural insecticides in a generation.

VARIOUS USES

Red Arrow kills: Aphids (Plant Lice), Mealy Bugs, Squash Bugs, Rose Chafers, Leaf Hoppers, Aster Beetles, Elm Leaf Beetles, Mexican Bean Beetles, Japanese Beetles, Striped Cucumber Beetles, 12 Spot Cucumber Beetles, 12 Spot Dahlia Beetles, White Flies, Stable Flies, Potato Beetles, Red Spiders, Fern Caterpillars, Cut Worms, Cabbage Loopers, Harlequin Cabbage Bugs, Fall Web Worms, Thrips, Celery Leaf Tier, and many other insects.

A 1 oz. bottle makes 4 to 8 gallons. **Price, 30c.** 1 gallon of finished spray costs 3¼c to 7½c.

½ pint can makes 35 to 70 gallons. **Price, \$1.75.** 1 gallon of finished spray costs 3¼c to 5c.



DRITOMIC SULPHUR

The extended use of sulphur in the past decade has fully established its fungicidal value and the advantages of its use as a foliage spray to prevent russetting of fruit when the temperature is above 70 degrees Fahrenheit.

There has been a growing demand for fungicides in dry form. To meet this demand, the General Chemical Company has developed a highly concentrated sulphur product; a product that combines the advantages of Atomic Sulphur with the advantages particular to dry powdered materials. This new product will give the fruit the well-known sulphur finish, without interfering with the assimilatory functions of the foliage or the development of the plant treated.

DRITOMIC contains 90% available sulphur and 10% inert matter. The inert matter, an adhesive and a spreader, is a stable and non-injurious combination of ingredients which do not yield readily to decomposition, even when spread in a thin film on fruit and foliage. This eliminates any detrimental effect of changing chemical character.

DRITOMIC permits the use of an arsenical with a small amount of lime added, the same as with other fungicidal sprays. The adhesive character of **DRITOMIC** prevents loss, thereby adding to the value of the arsenical because of its more permanent adhesion to fruit and foliage.

The spreading character and free flowing nature of **DRITOMIC** enables the covering of a larger area with less material and permits the application to be made with a lower pressure, thereby eliminating the chances of mechanical injury and saving wear and tear on both pump and engine.

PRICE

4 lb. Bags, per lb.20c.
48 lb. Pkgs. per lb.16c.
96 lb. Pkgs. per lb.15c.



BORDEAUX MIXTURE

BORDEAUX MIXTURE is a combination of copper sulphate and lime. It is a standard fungicide and may be used in combination with insecticides. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew.

Directions: 6 to 7 pounds to 50 gallons of water

1-lb. pkg., per lb.25c.
4-lb. pkg., per lb.20c.
100-lb. pkg., per lb.18c.

KAYSO



KAYSO is the combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kayso is now used by fruit and vegetable growers in all parts of the United States.

KAYSO should be added to all sprays, both summer and winter. Use it with all spray materials and with any combination of materials.

Ordinary spray collects in drops on the smooth surfaces of buds, twigs, branches, leaves and fruit. Between the drops of spray are numerous unprotected spaces which permit infections by worms and diseases. This deficiency of sprays is of great importance when one considers that the hole made by the newly hatched Codling Moth worm or the Corculio on entering the fruit is about the size of a pin-head; the San Jose Scale, Psylla, Thrips, Red Spider, etc., and the eggs of all fruit pests are very small, and the spores or "seeds" from which Brown Rot, Scab, Leaf Curl and all other diseases develop are microscopic in size. Kayso enables you to get your trees completely covered by a protective film of poison, with no unprotected spaces.

PRICES

2 lb. pkg.\$.40
100 lb. pkg.18.00

INSECTICIDES CANNOT BE SENT BY PARCEL POST

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

"BLACK LEAF 40"**NICOTINE SULPHATE—40% NICOTINE**

This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphis (plant lice), Thrips, Leaf-hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage.

May be combined with other sprays. Highly concentrated. Soluble in water—easy to mix—does not clog nozzles.

You cannot go wrong by ordering "Black Leaf 40" for sucking insects.

PRICES

1 oz., \$.35, makes 6 gals. ½ lb., \$1.25, makes 40 to 120 gals. 1 lb., \$2.50, makes 80 to 240 gals. 2 lbs., \$3.75, makes 160 to 480 gals. 5 lbs., \$7.00, makes 400 to 1,200 gals. 10 lbs., \$11.85, makes 800 to 2,400 gals.

NIKOTEEN

Is the most powerful known insecticide and will be found more economical and convenient than weak tobacco extracts. Price; Pint cans, \$2.25.

VAPORIZING PANS (for above).....\$.60

IRONS......60

3 PANS, 3 IRONS and 1 HOOK.....3.50

NICO-FUME

Nico-Fume is a Tobacco Paper insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. Prices: 24 sheets, \$1.25; 144 sheets, \$5.00, and 288 sheets, \$8.75. Directions on each package.

APHIS PUNK (NIKOTEEN)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphids and thrip very effectively. Per box, \$.80.

TREE TANGLEFOOT

For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

1-lb. can.....\$.50
5-lb. can.....2.25
10-lb. can.....4.25

**HAMMOND'S SLUG SHOT**

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it or fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

1-lb pkg.....20c.
5-lb. pkg.....50c.

HAMMOND'S GRAPE DUST

5 lbs.....75c.

CYANO GAS FUMIGANT

REG. U.S. PAT. OFF.

FOR GREENHOUSES

This form of cyanide slowly undergoes a change in the presence of air, liberating hydrocyanic acid gas, which kills the pests.

One-eighth ounce to 1000 cubic feet is a sufficient dose if the house is fairly tight.

Always start the fumigation about one hour after sundown—never before. Choose a still night.

The house should not be watered for at least twenty-four hours before fumigation.

Some plants will not stand the treatment and should be removed from the house.

Cyanogas G Fumigant—1-pound packages.....\$.75
5-pound packages.....3.00

It cannot be mailed.

NICO-FUME" TOBACCO POWDER

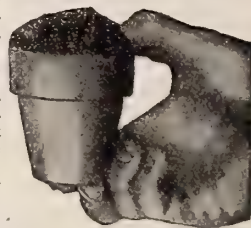
Tobacco Powder impregnated with a high-strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphis, Thrips, etc.

Fill an ordinary 2½-inch flower pot heaping full of "Nico-Fume" Powder (this being equal to about three heaping tablespoonfuls).

Pour the "Nico-Fume" Powder out upon the bare ground or cement walk in a narrow pile about seven inches long.

For Moderately Rapid fumigation, light the pile at one end.

For Extra Rapid fumigation, light the pile at both ends.



1 Pound....\$1.25 5 Pounds...\$3.75 10 Pounds....\$6.85
F. O. B. Factory.

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 15c.; half-pound, 30c.; pound, 50c.

PARIS GREEN

¼ pound\$.15 5-pound.....\$2.00
1 pound45

TOBACCO STEMS

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphids and other insects.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light. 50-pound bale, 5c. pound.

TOBACCO DUST

For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in or strew thickly in the drills before planting.

Price: 5 pounds, 30c.; 20 pounds, \$1.00; 100 pounds \$5.00.

**TOBACCO SOAP**

3-oz. cake makes 1½ gallons prepared solution, 10c. Mailed, postpaid, for 13c. 8-oz. cake makes 4 gallons prepared solution, 20c. Mailed, postpaid, for 25c.



SEED DISINFECTANTS

Control Seed-Borne Diseases—Stimulate Germination Improve Stands—
Generally Increase Crop Yields



PRICES OF SEMESAN JR.

4 oz. tin	\$.50
1 lb. "	1.75
5 lb. "	8.00
25 lb. pail	31.25
100 lb. drum	120.00
300 lb. "	345.00

SEMESAN Jr.

FOR SEED CORN

Applied by the simple dusting operation at the rate of 2 oz. to each bushel of seed corn, Semesan, Jr., offers the cheapest and most effective form of disease insurance.

It is especially effective in controlling seed-borne infections of diplovia, Gibberella and Basiporium, without harming the seed embryo in the least.

Its use protects the seed from rotting in the ground and makes possible earlier planting. Improved germination, better stands, control of certain diseases, increased yields, these are the benefits which thousands of farmers are reaping, at a cost of less than 3c an acre.

CERESAN

FOR SMALL GRAINS

Now, only one product is necessary for the seed treatment of wheat, oats, barley, rye and sorghum, CERESAN. Here is an easily applied dust treatment which has proven effective in controlling such seed-borne diseases as bunt or stinking smut of wheat; stripe disease of barley; loose and covered smuts of barley and oats and covered kernel smut of sorghum.

This is the only dust treatment which has successfully controlled all of these grain diseases as well as being the first effective dust disinfectant to be offered the farmer for the control of barley stripe and smuts. Ceresan does not injure the seed nor the grain drill. Only 2 oz. of Ceresan required per bushel of wheat, rye or sorghum and 3 oz. for barley and oats. Easy to apply, economical to use.



PRICES OF CERESAN

1 lb. tin...	\$.75
5 lb. tin...	3.00
25 lb. pail...	12.50
100 lb. drum...	49.50
300 lb. drum...	144.00

SEMESAN BEL

FOR SEED POTATOES

Instead of using chemicals for treating seed potatoes which require tedious soaking and which sometimes injure the seed piece, use the quick, easy, time-saving Semesan Bel treatment. Simply mix, dip, drain, dry and the potatoes are ready for planting. Semesan Bel may be used on either whole or cut seed pieces. Does not injure sprouts. No hot water necessary. A quick dip into the Semesan Bel solution and the seed potatoes are covered with a protecting film of disinfectant which effectively controls such seed-borne disease organisms as scab, rhizoctonia and black-leg.

By controlling these diseases, germination is generally increased, stand improved and the resultant crop of potatoes is bigger and of better quality. Crop increases of from 10 to 15% are common.

One pound treats 16 to 20 bushels of seed.

SEMESAN

FOR FLOWER & VEGETABLE SEEDS

Semesan is indispensable to those growing vegetables or flowers whether for market or home use. It may be applied in dust or liquid form to the seed before planting. It is harmless to the seed but deadly to any disease organisms that may be on the seed.

Semesan is such a powerful and effective disinfectant that seed treatment with it is ridiculously low in cost, from 1/4c to 1c per pound of seed. One ounce treats 15 lbs. of seed. Effective in controlling damping off, the Brown Patch disease which affects golf greens and such devastating gladiolus diseases as hard rot and scab.



PRICES OF SEMESAN

2 oz. tin	\$.50
1 lb. "	2.75
5 lb. "	13.00
25 lb. pail	56.25
100 lb. drum	220.00
300 lb. "	645.00

TREAT ALL FARM AND GARDEN SEEDS BEFORE PLANTING

VOLCK

VOLCK is one of the most powerful insecticides known. It is effective on practically all insects on ornamental and flowering plants. Wonderful results have been obtained against red spiders, cyclamen mite, aphids (green fly), scale, mealy bug, thrips, and caterpillars. Many pests that could not be controlled before are now killed with Volck. Even mildew and rusts are prevented and stopped by Volck. Not only does Volck give effective control of pests, but it also prevents reinfestation for a considerable period. Volck is odorless, colorless and non-poisonous. There is no unsightly residue. Plants are deep, glistening green after using Volck.

VOLCK DOES NOT BURN

The most tender foliage is safe where Volck is used. Coleus, cyclamen, evergreen, ferns, orchids and many other types of plants can be sprayed with safety. Volck is the most effective remedy known for red spider on indoor vegetables. It is used because it is safe and sure.

Prices, 1/2 pt., 50c; 1 pt., 75c; 1 qt., \$1.00; 1 gal., \$3.00; 5 gal., \$12.50; 14 gal., \$25.00; 28 gal., \$40.00.



POMODUST

ROSE SPECIAL

Pomodust is a combination of highly effective fungicides and insecticides in combination for the prevention of many blights, mildews and fungus troubles and to kill external leaf eating insects.

Pomodust is especially adapted to use on roses, and is used and recommended by many prominent growers.

It is also adapted for use on many other plants.

Pomodust is a very fine powder and can be readily dusted on the plants giving them a thin coat of very effective blight, mildew and fungus preventing remedy and at the same time coating the plants with a poison that is deadly to many external leaf-eating insects.

PRICE

1 Pound Package	\$.50
5 Pound Package	1.35
10 Pound Package	2.00
25 Pound Package	4.00



BUG DEATH

BUG DEATH kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; non-poisonous.

Directions for Applying Dry:

For potato and other vines which require a top application, apply dry with Shaker or Shifter at the rate of 15 to 25 pounds per acre to an application, according to size and conditions of the vines.

1-pound package.....	\$.20
5-pound package.....	.60
12½-pound package.....	1.45
100 pounds.....	8.75

FISH OIL SOAP

Apply for green-fly or aphids, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

1 lb.	\$.30	10 lbs.	\$2.25
5 lbs.	1.25	25 lbs.	3.25
100 lbs.			\$11.00

FLOUR OF SULPHUR

1 lb.	\$0.12 lb.	25 lbs. ....	.08 lb.
5 lbs. ....	.10 lb.	50 lbs. ....	.07 lb.
10 lbs. ....	.09 lb.	100 lbs. ....	.06 lb.

COMMERCIAL FLOUR OF SULPHUR

Sold in 150-lb. bags only. Per 100 lbs., \$3.50

Bluestone (or Copper Sulphate)

5 lbs., per lb.	15c.	50 lbs., per lb.	10c.
10 lbs., per lb.	12c.	100 lbs., per lb.	9c.

FORMALDEHYDE, 40% SOLUTION

IT IS VALUABLE AS A GERMICIDE, FUNGICIDE
AND DISINFECTANT.

1-Pt. Bottles, 50c. 1-Qt. Bottles, 90c. 1-Gal. Jng, \$3.00.



KEY BRAND CUT WORM KILLER

FOR USE AS POISONOUS BAIT AGAINST

CUT WORMS AND SLUGS by placing around plants subject to attack. It has an enticing odor that worms prefer to vegetation.

NOTE: One pound is sufficient for 100 plants in hills or 75 in rows.

5-lb. packages, \$1.50. 1-lb. packages, 35c.



KEY BRAND TREE WOUND PAINT

PREVENTS DECAY AFTER PRUNING.

This residuum, penetrating antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding.

NOTE: Antiseptic paint for wounds and pruning purposes.

1-Gal. Cans, \$3.00. 1-Qt. Cans, \$1.25.

PARA-DICHLOROBENZINE

FOR PEACH BORER CONTROL

Remove all grass, weeds and rubbish from around the tree, make a smooth, bare surface about sixteen inches wide around the tree at the soil level.

Remove any gummy exudation adhering to the crown or collar of the tree.

After the ground is prepared, distribute the crystals of Para-Dichlorobenzine evenly in a narrow circular band around the tree, keeping the inner edge of the band at least two inches away from the bark of the tree.

After the crystals are placed on the soil around the tree cover them with earth, at first lightly so as not to disturb the chemical, and complete by mounding the earth against the trunk of the tree until a cone-shaped mass of dirt four or five inches deep has been made, tamping the dirt down with the back of the shovel.

Use one ounce to a tree 6 years old or older; in case of very large tree, 1½ ounces may be needed to form a satisfactory band. On trees four or five years old, use ½ to ¾ ounces to a tree. We do not recommend using it on younger trees. Do not use on apple trees.

Spring application in May, Fall application in September.

1-lb. package, per lb.	\$.50	25-lb. package, per lb.	\$.30
5-lb. package, per lb. ....	.45	100-lb. package, per lb. ....	.26

SULFOCIDE

A Better Summer Spray

A concentrated liquid sulfur fungicide. Used on both peaches and apples and on all kinds of fruits, vegetables, and flowers. Controls: apple scab; brown rot of peaches, plums and cherries; blight and rot of potatoes, tomatoes and melons; mildew and rust of flowers and shrubs. Convenient, economical, effective. Dilute 1 to 200.

Prices: 1 Pt., \$0.70; 1 Qt., \$1.00; 1 Gal., \$2.75; 5 Gals., \$8.75; 10 Gals., \$15.00; 30 Gals., \$39.00; 50 Gals., \$60.00.

DUSTING SULPHUR

85-15 Dust. Contains 15% Dry Arsenate of Lead and 85% Flour Sulphur. A very effective dusting material for Strawberries, Canteloupe and other Melons, and in fact is an ideal dust for many uses.

100 Pound Bags, per bag.....\$7.00.

FUNGI DUST

This material has won its way to a high position in the spray world, being made from an especially prepared sulphur, all of which will go through a screen as fine as 300 mesh screen. This fineness permits it being carried to every remote part of the tree or plant that is being treated, permitting the material to get its effective work to a degree that is impossible with a material that has not this wonderful construction.

100 Pound Bags, per bag.....\$6.00

COPPERCARB

A new remedy for bunt or stinking smut in wheat. Being a powder which can be applied without any further mixing directly to the grain, makes it more economical than the old wet system, and as it can be done at any time, even months before sowing, does away with the evils of any soaking or wet process.

The seed is left in better condition, sows as rapidly and the germination is rather helped more than injured as with the soaking treatments.

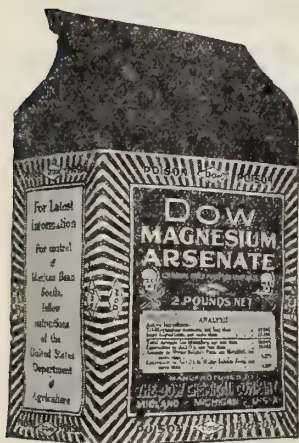
Raise clean wheat and save the loss in reduced prices when you sell your crop.

Use 2½ to 3 ounces to treat one bushel of wheat.

5-Pound Packages, per pound...\$0.20



Dow Magnesium Arsenate



Dow Magnesium Arsenate has proven satisfactory for Mexican Bean Beetle control. This material was first advocated by the U. S. Department of Agriculture and still carries their endorsement. The product comes to you in convenient sized packages and is reasonably priced. A trial will convince you of its merit. Also the spraying or dusting of beans with Magnesium Arsenate or Magnesium Arsenate Dust Mixture tends to increase yields per acre. We have received many letters from bean growers who particularly stress this point. You will agree that healthy plants are the only ones capable of maximum production. Increase yields by the use of Dow Magnesium Arsenate.

Dow Magnesium Arsenate gives best results when applied as a wet spray, using 2 pounds per 100 gallons of

water. This gallonage is sufficient for about one acre of beans.

Should you be interested in a prepared product, ready for use in a duster, we recommend Dow Magnesium Arsenate Dust Mixture. This contains genuine Dow Magnesium Arsenate blended with hydrated lime in accordance with government recommendations. The material has the same advantages as Dow Magnesium Arsenate.

Dow Magnesium Arsenate, 100 pound drums, 2 pound bags.
Dow Magnesium Arsenate Dust Mixture, 100 pound drums, 4 pound bags.

MAGNESIUM ARSENATE

2-lb. Packages..... \$.50
100-lb. Drums..... 22.00

MAGNESIUM ARSENATE DUST

PREPARED READY TO USE

4-lb. Packages..... \$.60
100-lb. Drums..... 12.00

ANTS DESTROYED



New method "gets" them at their source—safe, permanent, effective.

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup. The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permanent, effective and safe protection is insured from these annoying pests. Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c.; Antrol extra containers (each), 15c.; Antrol syrup, 4-oz. bottles, 45c.; pints, 95c.; gallons, \$3.75.

Antrol

The National Ant Control



NOTE

INSECTICIDES CAN NOT BE SENT BY PARCEL POST.
ALWAYS ORDER BY FREIGHT OR EXPRESS

BOURBON FLUOSILICATE DUST MIXTURE



is a dusting powder for the control of certain insects that attack garden and field crops. For some years various agricultural experiment stations have been conducting laboratory and field tests with the fluosilicates to ascertain their value as insecticides. As a result of this work it has been definitely shown that certain fluosilicates may be successfully used as substitutes for arsenical preparations against certain insects, and in some cases are superior to arsenic for such purposes. The fluosilicates are not as poisonous to human beings as arsenic.

Bourbon Remedy Company's FLUOSILICATE DUST MIXTURE contains a light, fine quality of sodium fluosilicate, carefully mixed with a suitable carrier so as to make a product adapted for dusting purposes, and ready for use without further preparation. Most of the ordinary commercial grades of sodium fluosilicate now available are not suitable for dusting.

Bourbon Remedy Company's FLUOSILICATE DUST MIXTURE acts as both a contact poison and a stomach poison. Coming in contact with the powder the insect picks up some of it on its feet, where it causes irritation which leads the insect to clean off the dust by drawing the feet through its mouth. In this way, and by eating the powder directly with the foliage of the plant, the insect gets a lethal dose of poison.

Bourbon Remedy Company's FLUOSILICATE DUST MIXTURE is adapted for the control of Mexican Bean Beetles, Potato Bugs (Beetles), Striped Cucumber Beetles, Blister Beetles, certain Flea Beetles, and Boll Weevils, and it may also be used to destroy Cutworms, to rid premises of Ants and Roaches, and to kill the Lice on fowls.

PRICE, 100-lb. Drums, \$15.00

Use **EVER GREEN**
NON-POISONOUS INSECTICIDE to
PROTECT YOUR GARDEN



For commercial use **EVER GREEN** is economical on the following: Aphis, Asparagus Beetle, Big Caterpillar, Cabbage Worms, Cranberry Fireworm, Currant Worm, Leaf Hopper, Leaf Tier, Loopers, Mexican Bean Beetle, Rose Chafer, Rose Slug, Strawberry Leaf Beetle, Striped Cucumber Beetle, Spittle Bug, Squash (Stink) Bug, Tarnished Plant Bug (Aster Beetle), Tent Caterpillar, and White Fly.

1 oz. bottles..... \$.35
6 oz. bottles..... 1.00
16 oz. bottles..... 2.00
32 oz. cans..... 3.50
1 gallon cans..... 13.00
5 gallon cans..... 50.00

Snarol

The National Pest Control



Science Provides New Safe Methods That Does the Work
Without Fuss

Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs,
etc., Are Exterminated

Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. These pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nurserymen. Prices—1-lb. packages, 45c.; 3-lb. packages, 95c.; 15-lb. bags, \$3.50; 50-lb. bags, \$9.50.

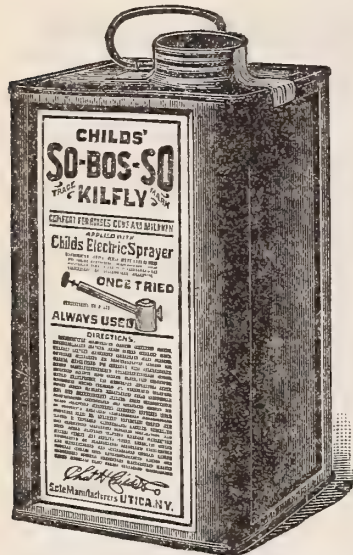
SO-BOS-SOTrade **KILFLY** Mark

Cows will give 15 to 20 per cent more milk if protected from the torture of flies with **So-Bos-So-Kilfly**. Kills flies and all insects; protects horses as well as cows. Perfectly harmless to man and beast. Rapidly applied with sprayer, 30 to 50 cows sprayed in a few minutes.

What is more trying to the patience than to milk a cow when she is continually stepping back and forth and lashing her tail under the irritation of a lot of flies? A moment's work with a sprayer and a little **So-Bos-So-Kilfly**, and all is quiet and serene. From 30 to 50 cows can be sprayed in a few moments.

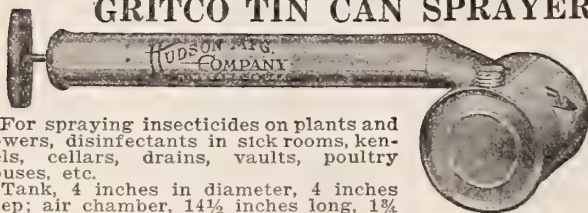
½-gallon can.....\$.35
1-gallon can.....1.50

Sprayer for applying
So-Bos-So, 50c.

**DR. HESS DIP AND DISINFECTANT**

Non-poisonous and non-irritating and guaranteed to be absolutely uniform in strength at all times. One gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Spray it on cattle and horses. Makes a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains.

Household size.....\$.40
1 Quart......60 1 Gallon.....1.75
½ Gallon.....1.00 5 Gallons.....8.25

GUARANTEED.**GRITCO TIN CAN SPRAYER**

For spraying insecticides on plants and flowers, disinfectants in sick rooms, kennels, cellars, drains, vaults, poultry houses, etc.

Tank, 4 inches in diameter, 4 inches deep; air chamber, 14½ inches long, 1½ inches in diameter. Coppered steel plunger rod. Made of heavy tin plate. Each one tested for leaks and sprays. Capacity, one quart. Parcel post weight, 2 pounds.
Our Special Price.....50c.

**Dr. Hess Fly Chaser**

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits.
GUARANTEED.

One Gallon.....\$1.50

GRADE 1 CREOSOTE OIL

Grade One Liquid Creosote Oil is coal-tar creosote refined sufficiently to give the maximum efficiency to the convenient and inexpensive Brush and Open Tank methods of treatment. Briefly, Grade One Liquid Creosote Oil is superior to the commercial coal-tar creosote for use by the small consumer, because

It is liquid. It is free from water.
It has low evaporation loss. It has high specific gravity.
It has low viscosity, and, being liquid, penetrates readily and deeply into the wood.

It has increased antiseptic and decay-preventing qualities.

It is a clean oil and imparts a pleasing, dark-brown color to the wood.

It is uniform, standardized material.

1-Gallon Can.....\$1.00 5-Gallon Can.....\$4.50

COW-EASE**RELIEVES CATTLE AND HORSES FROM FLIES**

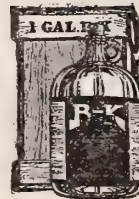
A liquid preparation carefully compounded from effective materials. It is of the right consistency for applying with a sprayer, and it will not gum the hair or blister the skin.

A SURE PREVENTATIVE FOR LICE, TICKS AND VERMIN

A light application of **Cow-Ease** will relieve cattle from lice, also prevent tick—the cause of Texas Fever.

Cow-Ease is an excellent article for spraying the interior of hen houses, also roosts and dropping board: it will prevent head lice and fleas and keep the house in a sanitary condition.

PRICES: Qt., 65c.; ½ Gal., \$1.00; Gal., \$1.75; 5-Gal. Can, \$8.50

**DISINFECTANT DEODORANT ANTISEPTIC**

1-Gal. Bottle

B-K is a powerful non-poisonous germicide with ten times the germ-destroying power of undiluted carbolic acid, yet contains no poison, acid, nor oil. It is fed in drinking water to calves, little pigs and poultry.

It is a powerful solvent of all protein matter such as casein milk solids on utensils, dead tissue, pus and mucus in animal tissue. It penetrates and dissolves these; destroys chemically the germs that cause the trouble, cleans surfaces of utensils; cleans and heals tissues of animals. It is ideal for colds, roup, flu, etc., in birds, and similar diseases acquired through mouths, throats and noses of animals.

It is a powerful deodorant. It destroys odors and leaves none of its own.

It is clean and leaves things clean. It will remove stains from feathers of show birds and from the hair of show animals. Adds bloom and brightness to birds and animals.

1-Quart Bottle.....\$1.25
1-Gallon Bottle.....3.00
5-Gallon Carboy.....12.50

ARROW CARBOLINEUM

Formerly Avenarius Carbolineum

Made in U. S. A. PRESERVES WOOD EVERYWHERE

against rot and decay, adding at least 100 per cent to the life of fence posts, poles, sills, floors, bridge timbers, porches and to wood embedded in concrete.

FOR STAINING BUNGALOWS AND FARM BUILDINGS

Arrow Carbolineum is brushed on the wood and is self-absorbing, therefore need not be rubbed nor worked into the wood like paint.

COVERING CAPACITY
350 square feet per gallon on dressed lumber.
250 square feet per gallon on rough lumber.
100 square feet per gallon on shingles.

Second coat only requires one-third or one-fourth the quantity for first coat.

KILLS MITES IN POULTRY HOUSES

PRICE
1-Gallon Can.....\$1.75
5-Gallon Can.....7.00



Pratts Poultry, Horse, Cattle Remedies

PRATTS ANIMAL REGULATOR



Intelligent, humane and prudent owners of horses, cows and other livestock realize the value of good tonics, regulators and remedies. For nearly half a century Pratt's has been adding to its successful record.

Packages: 25c., 50c., \$1.00
25-lb. pails.....\$3.00
100-lb. drums.....10.00

Keep your cows thrifty while forcing milk production, without increased cost for feeding or care by giving them

PRATTS COW TONIC

Promotes healthy appetite, good digestion, increased vigor, greater milk production. A wonderful all-around tonic. 50c.



PRATTS RED MITE SPECIAL

An effective liquid for exterminating the blood-sucking mites. To be sprayed or painted on roosts, dropping boards, nests, and other places where mites hide. Use these preparations regularly.

PRATTS RED MITE SPECIAL
1 qt., 60c.; ½ gal., \$1.00;
1 gal., \$1.60.



PRATTS DIP and DISINFECTANT



Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it in Roup, Colds and other contagious diseases.

¼ gallon.....\$.60
½ gallon.....1.00
1 gallon.....1.60



PRATTS COD LIVER OIL

Vitamin Tested for Poultry and Stock.
1 gallon....\$2.25
5 gallon....10.00
30 gallon....45.00

HEALTHY HENS AND LOTS OF EGGS

You may expect vigorous, laying, paying birds when you give them



PRATTS POULTRY REGULATOR

daily. It contains just those elements needed to keep poultry in perfect health. Both a tonic and digestive. Prevents common poultry ailments. Produces growth, gives increased vitality, and hastens maturity. Makes pullets early and constant layers.

Packages: 25c. and 50c.
12-lb. Pkg., \$1.40; 25-lb. Pail, \$3.00; 25-lb. Bags, \$2.60; 100-lb. Drums, \$10.00.



PRATTS POULTRY WORM POWDER

Worms in poultry are one of the greatest menaces to the poultry raiser. There are a number of kinds of worms that infest poultry, sapping their vitality, reducing their egg-laying capacity. Pratt's Worm Powder will greatly aid your flock and put them on a laying, paying basis.

Packages: 50c. and \$1.00
12-lb. bags, \$1.90; 25-lb. bags, \$3.60;
100-lb. bags, \$12.00.



PRATTS POWDER LICE KILLER

25c. and 50c.

Effective, non-poisonous, non-irritating. May be used wherever a powder is suitable. A splendid deodorizer. Will kill lice on horses, cattle, dogs or cats.

PRATTS SPECIAL COMPOUND

For indigestion, sour crop, and bowel troubles commonly called "cholera."

PRATTS SPECIAL COMPOUND is unequalled. Easy to use and very effective. Successfully used all over the world.

Packages: 50c.

PRATTS CHICK TABLETS

(Formerly called "Pratts White Diarrhea Remedy")



It is only necessary to give this remedy in the drinking water from the first drink. This remedy has saved many dollars worth of chicks to poultry raisers. You can depend on it.

25c. and 50c.

Pratts Gape Compound

Millions of chicks are lost every year through "gapes," little red worms in the windpipe.

PRATTS GAPE COMPOUND is an effective guaranteed treatment. For external administration—safe, sure, and gives quick relief.

Packages: 50c.

PRATTS N-K TABLETS

For Worms in Poultry



N-K TABLETS contain Nicotine and Kamala in the proper therapeutic dose. These two vermifuges are most highly recommended by all leading authorities.

PRATTS N-K TABLETS have an airtight, insoluble coating which keeps the contents fresh indefinitely. This coating is not dissolved by water, air does not penetrate through it.

When the tablet is given to the bird, it passes unchanged through throat, crop and glandular stomach until it reaches the gizzard, where it is broken, and the fresh, powerful drugs released directly into the worm-infested intestines.

PRATTS N-K (Nicotine and Kamala) TABLETS

Adult Size

50 Tablet Pkg.....\$1.00
100 Tablet Pkg.....1.75
500 Tablet Pkg.....7.00
1000 Tablet Pkg.....12.00

Chick Size for Birds under 4 lbs.

50 Tablet Pkg.....\$.65
100 Tablet Pkg.....1.00
500 Tablet Pkg.....4.50

Pratts R-P Powder and Tablets



Tablets of Powder: 50c., 25c.

Contains remedies which are quickly absorbed, purify the blood and reduce fever. Pills are convenient for individual treatment. Many poultrymen use this remedy the year round as an effective preventive.



RAISE EVERY LIVEABLE CHICK
WITH

Pratt's BUTTERMILK BABY CHICK FOOD

Remember, every one of these ingredients is present in a definite quantity that never varies with the price or market and each is of the very highest quality. We never lower our standard.

PRATT'S BUTTERMILK BABY CHICK FOOD is appetizing, harmless, wholesome, non-stimulating, highly digestible, clean, low in moisture, high in quality, always uniform and complete in every element needed for bone, muscle, feathers and health.

MONEY CAN BUY NO BETTER

100 lb. bags, 50 lb. bags, 25 lb. bags, 10 lb. bags, 5 lb. bags.



PRATT'S Buttermilk Growing Mash

It produces more pounds of weight on less food. So skillfully and thoroughly processed that all dust, hulls, or other foreign particles are removed. Every ounce is solid food that will build muscle, bone, nerve, feathers and health.

DIGESTIBLE **APPETIZING**

ECONOMICAL

100 lb. bags.

PRATT'S Intermediate Scratch or Developing Feed

Never in your life have you seen such a splendid scratch feed. Clean cut, uniform in size, attractive in variety and appearance, free from every particle of dust, hulls, chaff, weed seeds, or foreign materials, perfectly milled and mixed. Pratt's Intermediate Scratch Feed is the envy and despair of other feed makers and the delight of the chickens.

Victory, 100 lb. bags

THE CONTEST PROVEN FEEDS



No wonder! Every grain of it is a real treat for poultry and they work and search eagerly in the litter for every hidden food treasure. That's why.

PRATT'S Large Scratch Feed

Gives such splendid results. Made only of the best of plump, sweet, well-seasoned grains—it is the very acme of quality and gives the maximum of results.

EVERY SINGLE GRAIN OF PRATT'S IS REAL FOOD

Victory and Utility, 100 lb. bags.



PRATT'S CHICK SCRATCH FEED

Pronounced by authorities everywhere to be the finest, cleanest, purest, most economical and highest quality chick scratch ever offered to the public.

BRAINS CAN THINK OF NO BETTER, WE CAN MAKE NO BETTER, YOU CAN BUY NO BETTER, CHICKS CAN WANT NO BETTER.

Every ingredient is of the highest quality, carefully cracked and processed and repeatedly cleaned to free it of all dust, hulls, flour or other useless or wasteful parts. Contains no large pieces that might choke the chicks.

Victory, 100 lb. bags.



The one feed above all others that will give you more eggs per pound of feed consumed,

PRATT'S Buttermilk Laying Mash

This remarkable mash is the standard by which all others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratt's Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

Victory and Supreme, 100 lb. bags.

WRITE FOR PRICES.

Baby Chicks

Bred to lay from big, healthy stock. We start shipping about March 1st, and will continue until June 1st.

We will commence booking orders in February for future shipment, so, send in your order early to get prompt service.

Owing to the perishable nature of Baby Chicks, we ask orders to be accompanied with cash or money-order.

Prices for March subject to change without notice, in the following strains, only:

	25	50	100
SINGLE COMB WHITE LEGHORNS.....	\$4.00	\$8.00	\$15.00
SINGLE COMB BARRED LEGHORNS....	4.00	8.00	15.00
BARRED PLYMOUTH ROCKS	4.50	9.00	17.00
RHODE ISLAND RED	4.50	9.00	17.00



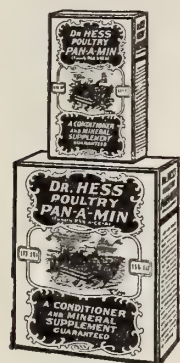
APRIL and MAY prices\$1.00 per 100 less than above
JUNE prices\$1.00 per 100 less than May prices.

All prices prepaid by parcel post and subject to change without notice.

All orders for Baby Chicks, subject to our confirmation. Kindly send cash or money-order with your orders, please.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

Dr. Hess Poultry PAN-A-MIN



Pan-a-Min has been known to poultry raisers for more than thirty years as Dr. Hess Poultry Pan-a-ce-a.

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Pan-a-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth, and in maintaining health. It does not take the place of feed and no feed can take the place of Pan-a-Min. The cost is less than a penny per hen per month.

3-lb. Pkg., 50c.; 7-lb. Pkg., \$1.00; 15-lb. Pkg., \$2.00; 25-lb. Pkg., \$3.00; 100-lb. Pkg., \$10.00.

Dr. Hess Poultry Ver-Mi-Trol



Dr. Hess Poultry Ver-Mi-Trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two ten-day courses, three weeks apart, with Dr. Hess Poultry Pan-a-Min, fed regularly. It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily. As a preventive measure to avoid worm investigations, a twice-a-year flock treatment, early Summer and late Fall, is strongly recommended.

4-lb. Pkg., \$1.25; 10-lb. Pkg., \$2.75; 25-lb. Pkg., \$6.25.

Dr. Hess Chick Tablets

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks often mistaken for bacillary white diarrhea, are results of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These tablets are a bowel stringent to be given in drinking water. Once the tablets are in solution, they remain so indefinitely, no need for further stirring. Solution is thoroughly medicated and all good till used.

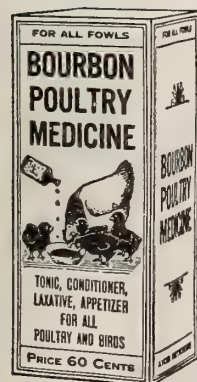
Packages 50c. and \$1.00

Dr. Hess Poultry Tablets

(Formerly Roup Tablets)

While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water. Thus used, they aid in preventing spread of the disease. Once the tablets are in solution, they remain so permanently. If the water is evenly medicated and requires no further stirring.

Packages 50c. and \$1.00



BOURBON REMEDIES

Bourbon Poultry Remedy—A few drops in fowls' drinking water cures and prevents white diarrhoea, cholera and other chick diseases. Use daily to keep your chicks healthy. Don't wait until disease strikes. Get it today.

Bourbon Poultry Remedy, trial bot.	\$.60
Bourbon Poultry Remedy, ½ pt. bot.	1.00
Bourbon Poultry Remedy, pt. bottle	1.50
Bourbon Poultry Remedy, qt. bottle	2.25
Bourbon Poultry Remedy, ½ gal.	3.50
Bourbon Poultry Remedy, gal. size	6.00
Bourbon Hog Remedy, quart size	2.25
Bourbon Hog Remedy, ½ gal. size	3.50
Bourbon Hog Remedy, gal. size	6.00

GYPSUM OR LAND PLASTER **FOR POULTRY HOUSES**

50 lb. bags.....\$.75 100 lb. bags.....\$1.25

Dr. Hess Stock Tonic



This product has been serving the dairy interests of this country for upwards of thirty-five years. A summary of many improved tests covering three whole years shows that cows receiving Dr. Hess Stock Tonic produce on the average 54% more profit than cows not getting the Tonic. The Tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. All the minerals proved necessary to the heavy producing dairy cow have been added. This condition and mineral supplement whets the appetite, sustains the milk flow well through the lactation period, and is a valuable aid in calving.

5-lb. Pkg., 75c.; 15-lb. Pkg., \$2.00; 25-lb. Pkg., \$3.00; 100-lb. Pkg., \$10.00.

Dr. Hess Hog Special



A conditioner and mineral supplement for hogs only. Dr. Hess Hog Special is an appetizer, laxative and diuretic—also a perfectly balanced mineral supplement. It supplies in all—sufficient quantities every mineral necessary for the hog's growth and thrift. Hog Special makes possible common sense worm control. It is given in the feed. No fasting or individual dosing is necessary. By giving continuously in the feed, worms are combatted by vermifuges and vermicides that are always in the system. It greatly retards worm reinfestation. The cost of using Hog Special is only twelve and a half cents per hog per month.

15-lb. Pkg., \$2.00; 25-lb. Pkg., \$3.00; 100-lb. Pkg., \$10.00.

Dr. Hess Antiseptic Powder

A ready help in emergencies—deserves a place on every stable shelf. For treatment of wire-cuts, scratches, galls and wounds. Quickly forms coating over wound and starts healing. Equally valuable for household use, or scalds, burns, chafing. An excellent shaving powder—soothing, cooling, relieves soreness.

Package 25c.

Instant Louse Killer



Kills Lice on Poultry, Horses, Cattle, Sheep Ticks, Bugs on Cucumber, Squash and Melon Vines; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans—look for the word "Instant" before buying. Price: 1 lb. 25c.; 2½ lbs. 50c.

GUARANTEED

Dr. Hess Dip and Disinfectant

Non-poisonous and non-irritating and guaranteed to be absolutely uniform in strength at all times. One Gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Spray it on cattle and horses. Make a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. GUARANTEED. 1 Qt., 60c.; ½ Gal. \$1.00; 1 Gal., \$1.75; 5 Gal. Can, \$8.25; 50 Gal. Drum, per gal., \$1.25.



SODIUM FLUORIDE

Sodium Fluoride for lice is the method recommended and endorsed by the United States Department of Agriculture, by Purdue University and most other leading agricultural colleges and experiment stations everywhere.

½-pound box, with sifter top.....35c.
1-pound box, with sifter top.....65c.

ROUP-OVER

A wonderful, new, prompt and positive treatment for Roup, Canker and Colds in Poultry.

Roup works fast. It usually begins with a cold; after that the disease progresses rapidly. Roup is one of the most serious of poultry diseases. Stop it quickly with Roup-Over.
Large Bottle\$.50 Extra Large Bottle.....\$1.00



BLATCHFORD'S CALF MEAL

DOUBLED FARM PROFITS

Maturing or vealing all your calves rapidly on Blatchford's Calf Meal, at a cost of about one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits both ways, need not be guessed at; they are discernible at a glance. Another source of profit that heretofore has been overlooked by most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra big profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you veal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to be desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk supply until the new grass comes in the spring. The new pastures stimulate the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from the several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot begin to get the results from any other method of calf-raising that you can get from feeding Blatchford's Calf Meal, the complete milk equal. **PRICES:** 25-lb. bag, \$1.50; 50-lb. bag, \$2.75; 100-lb. bag, \$5.00.

BLATCHFORD'S CHICK MASH

**IT
GIVES
THE
CHICKS
A
CHANCE**

shields them from **White Diarrhea, Bowel Trouble and Leg Weakness.** 14 lbs., 65c.; 25 lbs., \$1.35; 100 lbs., \$4.50.

BLATCHFORD'S "Fill the Basket" Egg Mash



The excess nutriment taken by the hen from Blatchford's "Fill the Basket" Egg Mash causes the development of eggs so that she has to lay during the winter, while the ordinary unbalanced rations tend to produce fat hens, but lean profits.

Blatchford's "Fill the Basket" Egg Mash is made up of Blatchford's Calf Meal, the complete milk-equal, combined with the best quality meat and fish scraps and alfalfa and grain meals. This makes a perfect, balanced egg-producing mash, consisting of protein, 19 per cent.; fat, 4 per cent.; fiber, 10 per cent.

25 lb. bags.....\$1.15 100 lb. bags.....\$3.75

THE GIZZARD CAPSULE



insoluble and carries the medicines intact to the gizzard where it is taken like a grain of corn, releasing the medicines into the worm infested intestines in full strength and undiluted.

As easy to administer as giving a pill. Suitable for chicks at 10 weeks (2 lbs.) to full grown. Don't feed worms. Stop this waste and increase your profits. Give GIZZARD CAPSULES now. Satisfaction guaranteed or money refunded.

50 Capsules \$1.00; 100 Capsules \$1.75; 500 Capsules \$7.00.

HOG OR DIGESTER TANKAGE

60%—100 lbs.....\$4.50
FISH MEAL TANKAGE, 100 lbs.....\$4.75

G. & T. CO.'S HIGH GRADE PURE BEEF SCRAP OR MEAT MEAL

45, 50 and 55 PER CENT. PROTEIN

This Beef Scrap is the highest possible grade, and is made from Pure Beef Trimmings and cracklings, and has no pork or other materials to cheapen same. It is fully guaranteed as to quality and will keep indefinitely. **Price:** 5 lbs., 50c.; 100 lb. bags, 45%, \$4.25.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. 5 lbs., 25c.; 50 lbs., \$2.00.; per 100-lb. sack, \$3.25.



Chick Manna or Health Food (FOR LITTLE CHICKS)

Chick Manna is one of the first foods put up especially for baby chickens. It is the best thing on the market, and should be used exclusively for the first ten days. It will save many little chickens, and will repay many times its cost. The first ten days will decide whether the chick will grow into a profitable chicken.

Prices:

With Chick Manna you are sure of a prime healthy chicken, one that will pay you to raise.

1-pound package.....\$.15	5-pound package.....\$.60
3-pound package.....\$.40	15-pound package.....\$ 1.45
25 lbs.....\$2.00	50 lbs.....\$3.75
	100 lbs.....\$7.00



White Diarrhoea and Chicken Cholera can be cured and prevented by **AVICOL.**

STOP THE LOSSES!

AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diarrhoea. It knocks the germs and gives the chick a chance.

Prices.....50c. and \$1.00

HACKETT'S GAPE CURE

CURE FOR CHICKEN GAPES

No drugging; simply confine the chicks and dust the powder over them; they inhale it: kills both worm and germ; treat the whole brood at once in less than five minutes.

Package, 40c. Postage on single package, 5c. extra.

DON SUNG

TABLETS FOR EGG LAYING

Scientifically compounded to make a balanced tonic and regulator for hens and to stimulate egg laying.

A concentrated Medicine—no filler.
Price 50 cents and \$1.00 Packages

SUCCULENTA TABLETS

do away with all the bother, the time and labor of feeding your chickens green sprouted oats, cabbage, beets, roots and all other green food. Simply dissolve a tablet in the drinking water; fowls drink it with a relish.

Via parcel post direct to you:
100 Large Tablets.....\$.60
250 Large Tablets.....\$ 1.00
500 Large Tablets.....\$ 2.00



Fine, Medium and Coarse Charcoal

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., 35c.; 10 lbs., 60c.; 25 lbs., \$1.25; 50-lb. sack, \$2.00; 100 lbs., \$3.00



BY USING

KOW-KARE

THE GREAT COW MEDICINE

the milk. It is a medicine for cows only. **Prices, small size, 65c.; large size, \$1.25.**

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KARE**. Carefully follow the directions as given on the box, and that cow will get well.

KOW-KARE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **Bag Balm**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **Bag Balm** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success, and is found on the most progressive farms in the country. **Price**60c.

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. **5 lbs., 40c. 10 lbs., 60c. 50 lbs., \$2.25. 100 lbs., \$3.75.**

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. We carry two sizes—No. 1 for grown fowls, and 2 for young chicks. **5 lbs., 40c. 10 lbs., 60c. 50 lbs., \$2.25. 100-lb. sack, \$3.75.**

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. No. 3 for young chicks. **5 lbs., 15c. 100 lbs., \$1.00. 500 lbs., \$4.50. Special prices in larger quantities.**

POULTRY GRIT

5 lbs., 25c. 100-lb. sacks, \$1.00. 500 lbs., \$4.50. (Poultry, Pigeon and Chick Sizes.)

BLACKMAN'S SALT BRICKS

Easiest and best way to give medicine to stock. It salts them too.

Blackman's Medicated Salt Brick, originated by a noted Veterinary Surgeon, insures stock getting the needed medicine without trouble or loss of time to their owners. When dropped in the feed-box, the brick is licked by the animal as needed, just as people use salt with their meals. Contains Copperas for Worms, Sulphur for the Blood, Saltpetre for the Kidneys, Nux Vomica, a blood tonic, and Pure Dairy Salt. It is a wonderful improvement over the old plan. **Why not try it?**

DOZEN\$3.00



We are in position to furnish the following feeds and materials at current market prices:

Pratts Supreme Dairy Rations	Middlings Flour or Red Dog
Pratts Victory Dairy Rations	Middlings Standard
Utility Horse Feed	Rollod Oats
Alfalfa Horse Feed	Oat Groats Whole Hulled Oats
Cracked Corn	Linseed Oil Meal
Corn Feed Meal	Cottonseed Meal
Ground Oats	Corn Gluten Feed
Pin Head or Steel Cut Oats	Fish Meal for Poultry
Bran Standard	Dried Buttermilk

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent foundlers, distemper, coughs, colds and swelling of the glands of the throat. **Small size, 35c.; Large Size.....65c.**

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. **HORSE COMFORT** is a liquid preparation which is unequalled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. **Price per bottle, 35c. and 65c.**

POKE ROOT COMPOUND

This compound recommended for internal use in treating garget, caked bag and similar udder conditions. **Price Per Can.....65c.**

SPRATTS DOG REMEDIES

These remedies have been on the market for fifty years, and are sold in most every country in the world. In offering them for sale we recommend them as being the best in their line, and properly used will give satisfactory results.

We do not list but a few of the various remedies of this standard make and if you desire any of those we do not list, we will be glad to get them for you.

Spratt's Dog Cake, the standard dog food used at the different kennels and dog shows throughout the world. Prices, small carton, 20c.; medium carton, 40c.; large carton, 75c.; 100-lb. bags, \$12.00; 25-lb. boxes, \$3.25; 50-lb. boxes, \$6.35; 100-lb. boxes, \$12.50.	
Spratt's Puppy Cake, small carton, 20c.; medium carton, 40c.	
Spratt's Puppy Meal, carton, 20c.	
Spratt's Pheasant and Turkey Meal, carton, 40c.; 25 lbs., \$3.25; 50 lbs., \$6.10; 100 lbs., \$12.00.	
Spratt's Fibro	.....\$ .40
Spratt's Alterative Cooling Tablets	......60
Spratt's Anti-Vomit Tablets	......60
Spratt's Digestive Tablets	......60
Spratt's Diarrhoea Tablets	......60
Spratt's Distemper Tablets	.....1.00
Spratt's Hair Stimulant and Restorer	......60
Spratt's Kidney Tablets	......60
Spratt's Liniment	......60
Spratt's Pneumonia Tablets	......60
Spratt's Purgative Tablets	......60
Spratt's Worm Capsules for Puppies	......60
Spratt's Tonic and Condition Tablets for toy dogs and puppies	......60
Spratt's Distemper Tablets for toy dogs and puppies	......60
Spratt's Vermifuge Capsules for toy dogs and puppies	......60
Spratt's Eczema and Sarcopic Mange Remedy	......60
Spratt's Patent Improved Dog Soap (White), for fleas, lice, etc. It is entirely free from poison and at the same time most effective in the destruction of lice and fleas. Per cake	......25
Spratt's Patent Antiseptic Soap (Black), for veterinary uses, etc. Per cake	......50

SAL-VET

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the salt they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus doctor themselves.

A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS

It is the worm-infested, half-starved animals that spread the deadly worm-curse over your farm. They are disease-breeders and disease-carriers of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the danger spots in every herd.

10-lb. packages "Sal-Vet"	.....at	\$ 1.00 each
15-lb. packages "Sal-Vet"	.....at	1.50 each
50-lb. pail "Sal-Vet"	.....at	4.00 each
100-lb. kegs "Sal-Vet"	.....at	6.75 each
200-lb. barrels "Sal-Vet"	.....at	12.00 each
300-lb. barrels "Sal-Vet"	.....at	16.00 each

BANNER ROOT CUTTERS No. 7



Banner No. 7

EXCLUSIVELY FOR POULTRY

It cuts fast and is easy running. Leaves the feed in fine brittle, ribbon-like strips that make choking impossible. Fowls large or small can safely eat the feed. The knives are adjustable and made of the very best of steel. An iron grate in bottom of hopper lets dirt and gravel escape before reaching the knives. In this cutter we offer the poultrymen a low-priced, high-grade, nicely-finished and mechanically constructed machine, and feel that anyone who desires to feed Roots and Vegetables to their flocks can well afford to own one. Two to five minutes will cut enough feed for a large flock of birds.

Price, \$3.00

Banner No. 28

A New Root Cutter. A Shredder. Using the Patent Banner Knife. For Poultrymen, for Sheepmen, for Stockmen. A Root Cutter that cuts all roots and vegetables like Beets, Carrots, Potatoes, Onions, Apples, Turnips, Cabbage.

Weight of machine complete, 150 pounds. Capacity of hopper about 2½ bushels. Speed by power 125 to 150 Rev.

Price, Complete, with Pulley and Crank, \$39.50.



Banner No. 28

Banner No. 25

FOR HAND OR POWER

This is a new style machine. It can be used by hand or light power. Is very strong and durable. Capacity 30 to 60 bushels per hour. Weight, 100 pounds.

Price, with Crank.....\$18.50



Banner No. 25

No. 35—Banner Root Cutter

Heavy construction for hand or power; weight, complete, 185 pounds; capacity of hopper about 3 bushels.

This is a cylinder type cutter and is made strong to stand power. The hopper is large and deep. The Cutting Drum to which the knives are attached is strong and will not break or wear out. It is positive feed as the roots lay on top of the Cutting Drum. It has 30 gouge-shaped knives.

Price, complete, with Pulley and Crank, \$47.50

COLIVEROL

Is Unsurpassed as a Tissue Building Food for Poultry and Livestock—is by far the best product ever brought to the American Poultryman and Stockman.

It retains all the vitamins of Cod Liver Oil, when mixed with mash, longer than pure cod liver oil itself.

COLIVEROL does not sour.

COLIVEROL is easy to mix with mash.

Price

1 pound.....\$.40
2 pounds......75
5 pounds.....1.75

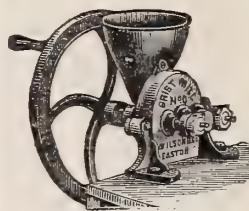
POULTRY LITTER



Used with great success by leading poultrymen instead of straw and shavings. It absorbs all moisture, retains the ammonia and keeps dampness down in the laying house. One or two applications a season will give great results.

Price per bale.....\$3.50

WILSON No. 0 FAMILY GRIST MILL



This mill is especially made for grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. Weight, 30 lbs., \$7.50. With iron stand; weight, 65 lbs., price \$10.50. Diameter of hand wheel, 20 in.

Wilson No. 1 Bone and Shell Mill

Weight, without stand, 33 lbs..\$7.50
Weight, with stand, 68 lbs.....10.50

RED CHIEF MILLS

No. 1—For Small Poultry Raisers. Price.....\$3.50

No. 2—Best Crank Mill on earth. Feed gauge to regulate grinding. Price.....\$5.00

No. 5—With large capacity, feed gauge and fly wheel. Clamps to box. Price.....\$7.00

No. 10—With feed gauge, fly wheel and handsome stand to screw on table. Price.....\$8.50

No. 12—Best Hand Mill on earth. Bronze boxes, steel axle, large fly wheel. Price.....\$14.00

No. 15—Power Mill for one-horse engine; strong, durable and easy running. Price.....\$14.00



No. 10

Combined Hand and Power Mill

No. 20—Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per hour. Has no equal. Price, \$19.00.

Black Hawk



Grist Mill

Black Hawk Feed and Grist Mill

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. Weight, 17 pounds. Price...\$3.50

MANN'S GREEN BONE CUTTER

No. 5C—With Crank Handle. Weight, 35 lbs.....\$12.00

No. 5B—With Balance Wheel. Weight, 45 lbs.....15.00

No. 7—With Balance Wheel. For flocks of 100 hens.....19.75

No. 9—With Balance Wheel. For flocks of 300 hens....30.00

Larger Sizes, Price on Application

Can't Clog Dry Mash Feeder



Successful poultrymen everywhere use and praise it. It is made to last a lifetime from galvanized sheeting and channel iron. The standards and suspension chains are adjustable. The ring shaped base gives perfect stability.

The Can't Clog Feeder pays for itself many times over, not only in the waste it prevents, but in the time it saves you and in the increased return from your hens. And the price is so low that really no poultry raiser can afford to feed the old wasteful, slipshod way. Try the Can't Clog once and you'll wonder how you ever got along without it.

No. 27—20 Qt.....\$3.00

No. 37—32 Qt.....3.50

QUEEN COAL BURNING BROODER STOVE

The **Queen Colony Brooder** is a new and improved design of brooder stove. It is made of highest quality iron castings that will wear and last indefinitely.

There are no drafts on the smoke pipe of the **Queen**. The check rests on top of the stove and opens outward when fire is too warm, thus giving a gentle inflow of air to retard the heat. While the opening of the draft to increase the fire is located at the top of the stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath, with no opening below the hover.

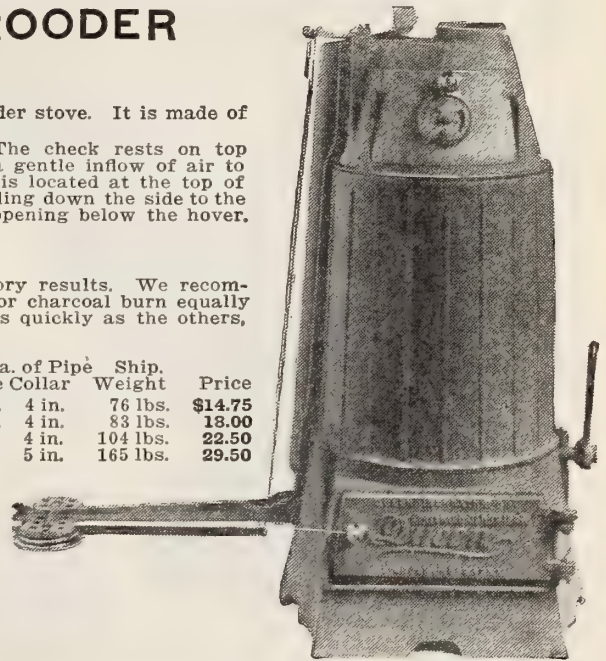
BURNS ANY KIND OF FUEL

The **Queen** stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel, and hard or soft coal, coke or charcoal burn equally well. Of course, hard coal will not cause the pipe to become dirty as quickly as the others, but it will give no better heat.

	Capacity	Diam. of Canopy	Height	Diameter Of Cyl.	Dia. of Pipe Of Grate Collar	Ship. Weight	Price
No. 0 Stove	400 chicks	42	18 in.	10 in.	9 in.	4 in.	76 lbs. \$14.75
No. 1 Stove	800 chicks	52	23 in.	10 in.	9 in.	4 in.	83 lbs. 18.00
No. 2 Stove	1200 chicks	56	26 in.	11 in.	10 3/4 in.	4 in.	104 lbs. 22.50
No. 4 Magazine Stove...	1600 chicks	60	37 in.	14 1/2 in.	13 1/2 in.	5 in.	165 lbs. 29.50

PIPE FOR STOVE BROODERS

4-inch Galvanized Pipe in 10-foot Lengths, per foot.....	12c.
5-inch Galvanized Pipe in 10-foot Lengths, per foot.....	18c.
4-inch Galvanized Elbows.....	35c.
5-inch Galvanized Elbows.....	40c.



QUEEN INCUBATORS



A **Queen** costs but little more, and the extra chicks that live and grow soon pay the difference.

Remember, it is not how many chicks you **HATCH** that counts, but how many you **RAISE**. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss.

PROPER INSULATION

The **Queen** is doubly insulated. First we use double walls of California Redwood, forming a dead-air space. Second, corrugated strawboard is used between the wooden walls.

Queen Hot-Water Heating

The **Queen System** of hot-water heating prevents the drying-out tendencies found in hot-air incubators and provides a soft, uniform heat over every part of the egg chamber—a heat that is most natural for the hatching eggs. The circulation of water through the radiator prevents any moisture being added or taken away from the eggs. When it becomes necessary to remove the lamp, the hot-water circulating through the radiator maintains an even heat within the egg chamber without the slightest variation.

SIZES AND PRICES

No. 21 Style K—220-egg size.....	\$20.00
No. 3 Queen—180-egg size.....	22.00
No. 4 Queen—275-egg size.....	30.00
No. 5 Queen—400-egg size.....	42.00
No. 25 Queen—550-egg size.....	62.00
No. 40 Queen—1000-egg size.....	124.00

NEW EGG-TURNING TRAY

Queen Incubators may be equipped with Egg-Turning Trays if desired, but will not be unless so ordered.

The 26-inch Egg-Turning Tray fits the No. 22 Queen Incubator. **Price, \$4.00 each Tray.**

The 30-inch Egg-Turning Tray fits Queen Incubators Nos. 4, 5 and 35. **Price, \$4.00 each Tray.**

The 32-inch Egg-Turning Tray fits the No. 25 Queen Incubator. **Price, \$5.00 each Tray.**

The 40-inch Egg-Turning Tray fits the No. 45 Queen Incubator. **Price, \$7.50 each Tray.**

EGG TESTER



**PRICE 25c.
POSTPAID 35c.**

QUEEN TESTED THERMOMETERS

Queen Incubator Thermometers, postpaid	\$1.00
Queen Brooder Thermometers, postpaid .....	.85
No. 5775 Incubator Thermometer, postpaid	1.00

No. 30, VALVE AND FLOAT

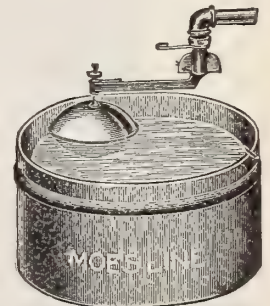
A perfect automatic valve and float, to regulate the flow of water to a drinking dish. The valve mechanism is entirely of brass, nickel finish, with nothing about it to rust or clog up. Positive in action.

Where one or more of these automatic valves are installed in a poultry yard the watering problem is solved. A great labor saver.

The valve can be attached to any iron water pipe, or to a barrel or tank, and insures a continuous, automatic supply of water, without waste.

Valve is threaded for 1/4-inch iron pipe. The wire hook holds the float up while pan is being cleaned or removed.

No. 30. Automatic Valve and Float only. Packed 12 in a carton. Shipping weight 6 pounds per dozen, 10 oz. each.
Price, each.....\$1.00
Per Dozen.....12.00

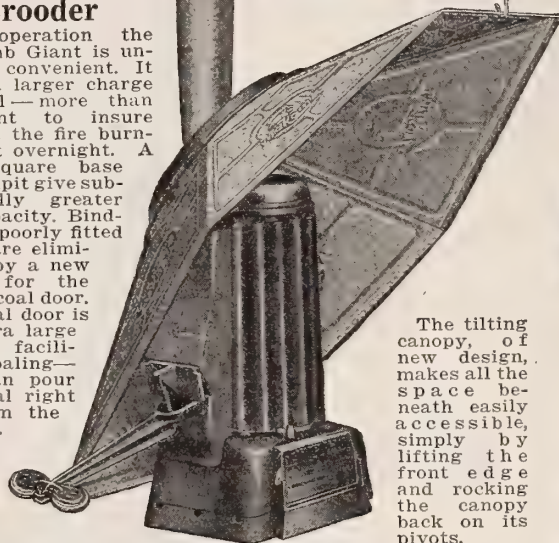


INCUBATOR LAMPS

No. 1 Lamp and Burner, using 1/2-inch wick.....	Each, \$1.50
No. 2 Lamp and Burner, using 1-inch wick.....	Each, 2.00
No. 3 Lamp and Burner, using 1 1/2-inch wick.....	Each, 2.50
Brooder Lamp, complete.....	Each, 2.00
No. 1 Sun Hinge Burner.....	.75
No. 2 Sun Hinge Burner.....	1.00
No. 3 Sun Hinge Burner.....	1.00
No. 1 Wick.....	Dozen, .30
Nos. 2 and 3 Wicks.....	Dozen, .50

The MaKomb Giant Coal Brooder

In operation the MaKomb Giant is unusually convenient. It holds a larger charge of fuel—more than sufficient to insure against the fire burning out overnight. A new square base and ashpit give substantially greater ash capacity. Binding or poorly fitted doors are eliminated by a new hinge for the top or coal door. The coal door is of extra large size to facilitate coaling—you can pour the coal right in from the scuttle.



The tilting canopy, of new design, makes all the space beneath easily accessible, simply by lifting the front edge and rocking the canopy back on its pivots.

PRICES	
B1-1147—47 in.	\$15.00
B1-1256—56 in.	19.50
B1-1365—65 in.	23.50

Price	
56-in.	
No. B1-1956	
\$25.00	
65-in.	
No. B1-1965	
\$30.00	



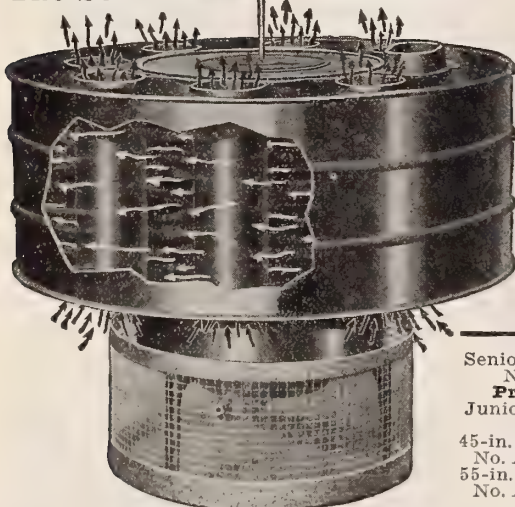
The MaKomb Coal-O-Stat A Super Brooder

Poultrymen have come to look to MaKomb for the development of the newer, more dependable, up-to-the-minute appliances. Here again, MaKomb triumphs—the answer to two years of painstaking research and engineering design—developing the finest brooder equipment that money could produce.

Koal-O-Stat, with its massive, scientific design, looks the part. Its superlative performance leaves no room to doubt its remarkable superiority.

MAGAZINE—Provides ample and automatic fuel supply. This exclusive construction greatly increases fuel capacity and eliminates the inconvenience of frequent fueling. Coal is evenly distributed over fuel bed. An outstanding Koal-O-Stat feature!

The Senior Oil-O-Stat

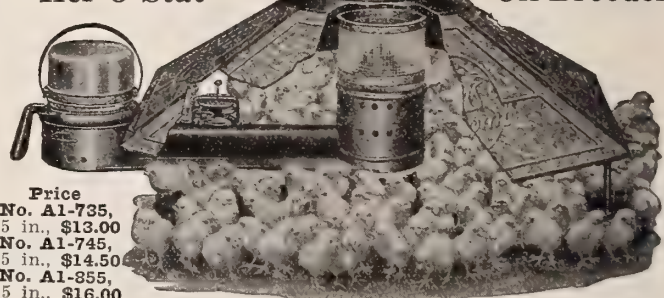


THE SENIOR OIL-O-STAT—A massive room heater, with 30-inch drum and large area of radiating surface, designed to heat the entire room or house, and not furnished with canopy. The seven 4-inch circulating tubes insure wonderful efficiency, and make the Senior a Room Heater beyond compare. Senior has 3900 square inches of radiating surface, and will circulate the air in an ordinary 10x12 house every 10 minutes.

THE JUNIOR OIL-O-STAT—With its 18-inch drum and double baffling, is ideal for smaller broods and houses. Despite its low price, it gives complete satisfaction, but it is not a heavy-duty brooder for large houses and cold weather. Completely obsolesces the over-priced open flame kerosene brooders, and actually costs less.

Senior Oil-O-Stat, No. A1-23, Price, \$35.00
Junior Oil-O-Stat, Price
45-in. Canopy, No. A1-2145, \$22.00
55-in. Canopy, No. A1-2155, 24.00

The MaKomb Ker-O-Stat



Price	
No. A1-735, 35 in.,	\$13.00
No. A1-745, 45 in.,	\$14.50
No. A1-855, 55 in.,	\$16.00

With improved design and lower prices, the MaKomb Ker-O-Stat Automatic Oil Brooder presents an even greater value. The automatic Safety Pilot Light, and the full Thermostatic Control afford completely automatic operation, without danger of the flame going out. On warm days there is no heat generation; but the pilot light, of improved construction, stands guard to relight the burner the moment outside temperatures drop.

MAKOMB HEATED FOUNTS

The MaKomb Ten-Gallon Heated Fountain is of the float controlled type. It is equipped with a Non-Roosting Cone Top, lifted off to fill the fountain.

Price	
Fount only, No. G1-1110,	\$5.00
Lamp Heated, No. G1-710,	8.00
Electric Heated, No. G1-910E	9.00



MaKomb Chick Fount

TOP FILL—10 QTS.

New fountain of most practical design. Built of heavy gauge galvanized steel. No clamps, no upset. Removable Cone Top comes off to fill. Handle provides for easy handling. Float can be locked to prevent flow. Price, each, G1-1, \$1.50.

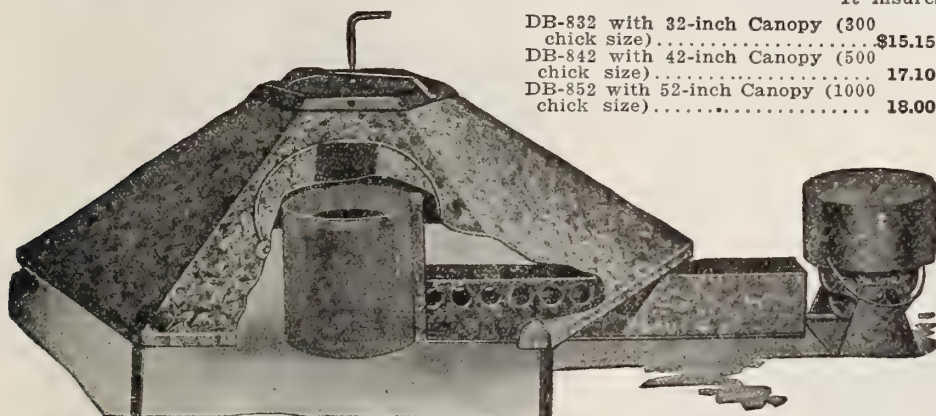


NEW MODEL SPIL-PRUF FOUNTAIN

The new Spil-Pruf Fount eliminates splashing when inverted after filling. New exclusive design with rib grip for easy handling. Made of best grade stoneware, glazed inside and out. Permanent and sanitary. Equipped with footed pan.

S1-12, 2 qt.	\$.45
S1-14, 4 qt.	.53
S1-16, 6 qt.	.75

Drew Thermo-Regulated Oil Brooder



DB-832 with 32-inch Canopy (300 chick size).....	\$15.15
DB-842 with 42-inch Canopy (500 chick size).....	17.10
DB-852 with 52-inch Canopy (1000 chick size).....	18.00

The Drew Line "Thermo-Regulated" Wickless Blue Flame Oil Burning Brooder Stove is the most practical, most accurately controlled oil brooder ever offered to the poultry raiser. It insures uniform temperature for the baby chicks regardless of weather conditions outside.

You can go to bed without a worry about your chicks! They are positively protected against changes of temperature and against extremes of cold and heat. This simple thermostatic mechanism raises and lowers the oil pipe line so that the flame of the burner increases or decreases and the amount of heat generated is thus effectively controlled, the chicks always getting the desired amount of warmth.

Drew All Year Feeders

For Mature Flocks and Baby Chicks

Just what the poultrymen have needed for a long time. Hangs from the ceiling to within a few inches of the floor. The feeding pan agitates freely as the hens eat.

To use the feeder for baby chicks, simply remove the feeding pan, and put on the baby chick feed ring and pan. Sets on the floor.

Holds about 25 lbs. of dry egg-making mash. Each feeder is large enough for 30 chickens, and will only need filling every 6 or 7 days. No. 'CDB550

All Year Feeder
\$3.00

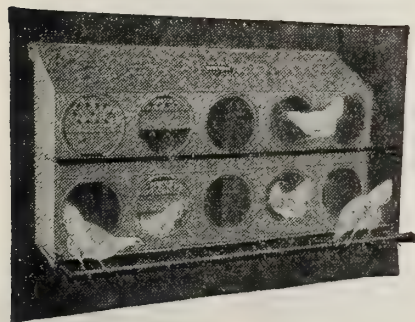


For Large Fowls



For Small Chicks

DREW ALL-METAL LICE-FREE NESTS



Drew Line of Sanitary Nests are made in 3 combinations—3-hole, 6-hole and 10-hole. Drew nests are neat, they are pleasing in appearance, they are sanitary, they are comfortable. Built of first-grade copper-bearing galvanized steel sheets, they are quality nests that will withstand hardest service for many years.

The nest boxes are 11½ inches wide and 13 inches deep, with a 9¼-inch nest-hole, sufficiently large for average flocks. Drew Trap Attachment with special double hinge, sure-drop construction as shown on DB-830 Nest Section above. Can be furnished if desired.

DB-826 Drew All Metal Nests, 3-hole section, weight 25 pounds. Price.....	\$5.25
DB-826 Drew All Metal Nests, 6-hole Double Tier Section, weight 35 pounds.....	\$8.10
DB-830 Drew All Metal Nests, 10-hole Double Tier Section, 55 pounds.....	10.95
DB-811 Drew Trap Attachments, weight 1 pound.....	.45

The Drew "GIANT" Chick Feeder



DB-836 Giant Chick Feeder

The Drew Giant Chick Feeder is especially designed to care for flocks of 200 to 300 chicks. The feeder is 35 inches long, 17 inches high and 11 inches wide at the base. It holds about 50 pounds of chick mash and it will permit about 50 chicks to feed at one time.

A removable cover at top is provided for convenience of filling. The wire tilting device on the cover prevents chicks from roosting on the top and fouling the feed and spreading disease.

DB836 Drew Line "Giant" Chick Feeder; wt. 23 lbs.....\$5.95

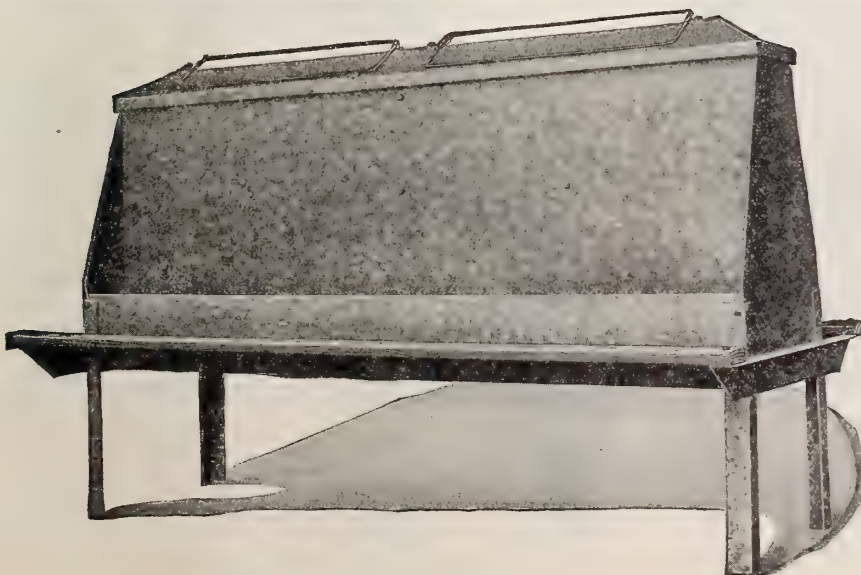
DREW POULTRY MASH FEEDER

Here is the greatest mash feeder on the market today—a real egg-maker and a big mash saver. It has a large egg-mash capacity.

The 50-pound size is equipped with a mash hopper 24 inches long, 22 inches deep. The extra deep feed troughs on both sides of the hopper enable a large number of hens to feed at one time without wasting valuable feed. This size is designed to accommodate 75 hens.

The 100-pound size is similar in design and construction, but is just twice as large in egg-mash capacity. Both sizes are made of the best galvanized steel and are of particularly sturdy construction.

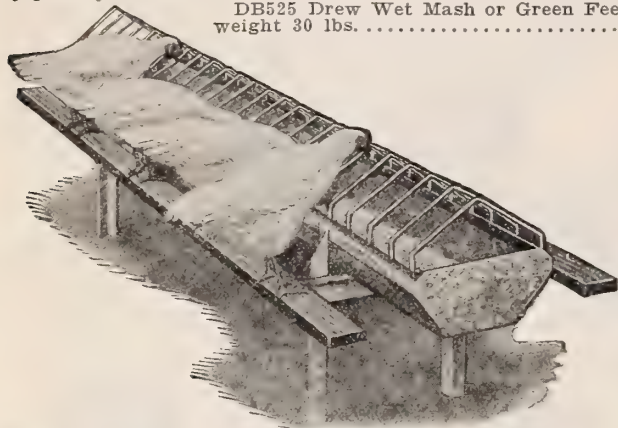
DB-850A Drew Mash Feeder; weight 40 lbs. Capacity 50 lbs. egg-mash.....	\$10.20
DB-800A Drew Mash Feeder; weight 60 lbs. Capacity 100 pounds egg-mash....	13.80



Wet Mash or Green Feed Trough

All flocks require green feeds and wet mashes if best results are to be obtained. Why waste valuable feed? This trough will last a lifetime and will save its price many times over. It is made of the best galvanized steel with a trough 60 inches long and 21 inches wide over the perches. It stands 21 inches high to top of guards. The wire guards keep the feed clean and prevent waste. A mighty good investment for any poultry man.

DB525 Drew Wet Mash or Green Feed Trough, weight 30 lbs.\$6.00



Drew Wall Mash Feeder

The Drew Wall Mash Feeder holds 20 pounds of egg-mash. It was designed particularly for flocks of twenty to thirty hens. It is built with a special deep feed trough to prevent hens from wasting mash. Made of hot galvanized copper steel—will last a life time. Designed to be hung on wall—a convenient feature.

DB-820 Drew Wall Mash Feeder, weight 15 lbs. \$3.15 Holds 20 lbs. mash.

DB-40 Drew Wall Mash Feeder, weight 25 lbs. \$4.00 Holds 40 lbs. mash.



DB820

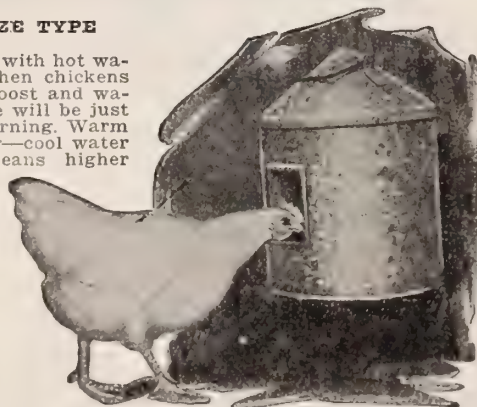
DREW POULTRY WATERER

NON-FREEZE TYPE

Fill waterers with hot water at night when chickens have gone to roost and water temperature will be just right in the morning. Warm water in winter—cool water in summer means higher production at less cost for you. You cannot afford to do without one of these waterers.

DB-519 Drew Non-Freeze Waterer, 2½ gal. capac.; wt. 25 lbs. Price, \$4.25

DB-518 Drew Non-Freeze Waterer, 4 gallon capacity; weight 32 pounds. Price.....\$5.40

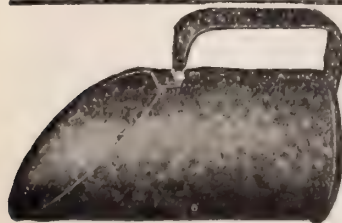


Drew Handy Feed Scoops

Are a necessity around the poultry house. Strong construction with handle securely riveted to body of scoop.

DB-542 Drew Handy Feed Scoop, 2-qt. capac.; wt. 1½ lbs. Price.....\$0.50

DB-544 Drew Handy Feed Scoop, 4-qt. capac.; wt. 2 lbs. Price\$0.75



DREW CHICK TANK

The Drew Chick Tank has been used by thousands of poultry men who claim that it is the best thing of its kind on the market. This 1½ gallon capacity, 100-chick size is built of heavy rust-resistant copper-steel, heavily galvanized. It is rust proof and sturdy—an ideal, large capacity waterer.

There are only two parts to this waterer—the bucket and the watering pan. It saves time, worry, work and trouble in watering large flocks. You will appreciate the value of this economical Drew waterer.

DB-507 Drew Chick Tank; weight 6 pounds. Price....\$1.30



Drew Waterer

Lamp Heated

A great waterer, 8 gals. capac., built of 26-gauge, hot-galv., copper bearing steel sheet. The drinking pan extends all the way around the waterer, allowing 10 to 15 birds to drink at one time.

The water level is controlled by a copper float

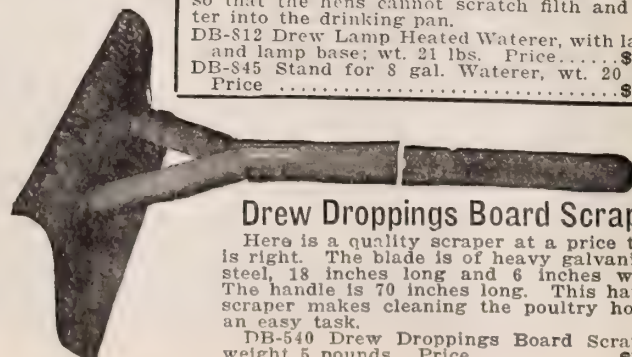


This waterer will take care of 150 hens for a full day. The lamp is exceptionally well made and will burn for at least 90 hours without refilling.

For ease of cleaning there is nothing else like it and in general it is the greatest value on the market in a heated waterer. An excellent investment. A special stand with perches as shown in cut can be supplied for this waterer. This sanitary feature holds the water sufficiently high from the floor so that the hens cannot scratch filth and litter into the drinking pan.

DB-S12 Drew Lamp Heated Waterer, with lamp and lamp base; wt. 21 lbs. Price.....\$7.90

DB-S45 Stand for 8 gal. Waterer, wt. 20 lbs. Price\$1.50

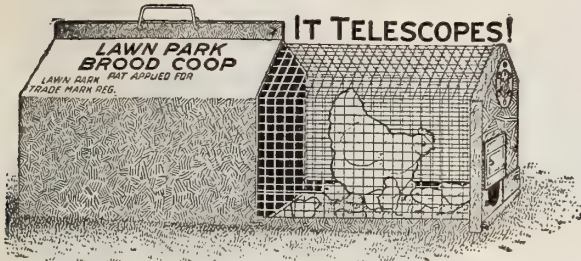


Drew Droppings Board Scraper

Here is a quality scraper at a price that is right. The blade is of heavy galvanized steel, 18 inches long and 6 inches wide. The handle is 70 inches long. This handy scraper makes cleaning the poultry house an easy task.

DB-540 Drew Droppings Board Scraper, weight 5 pounds. Price.....\$1.30

THE LAWN PARK COOP



It is made entirely of galvanized material, will not rust and is proof against all chick enemies. The body of coop is made from strong 28 gauge galvanized steel, the wire park is made from heavy 1/2-inch mesh galvanized wire screen.

The Lawn Park is large and roomy, being 18 inches wide, 19 1/2 inches high and 24 inches long, with park closed and 48 inches long with park extended.

Gives absolute protection to chicks, permits chicks to grow and thrive nature's way.

PRICE, Each, \$4.00; 6 for \$22.50

Coop Without Park, Each, \$2.00; 6 for \$10.50

"CYMACO" DRY MASH FEEDERS



SOLVE THE FEEDING PROBLEM

The feeder that has won the highest favor among thousands of poultry men and farmers throughout the country. The CYMACO feeder is made of the best galvanized steel with enamelled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

No.	Capacity	Shipping Weight	Each
12	1/2 bu.	11 lbs.	\$2.25
24	1 bu.	17 lbs.	3.50

Parcel Post New Model Metal Egg Crate

The biggest thing to be said of the New Model is that it is designed and built—both inside and out—to eliminate waste of fillers and breakage of Eggs as well as deterioration of the carrier, thus insuring long life.

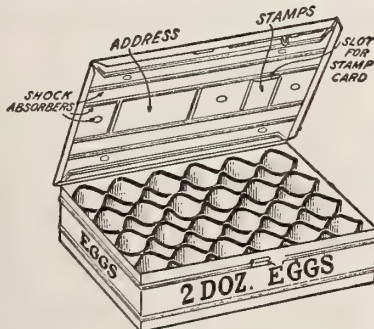
METAL EDGE FILLER

The new patented Filler made of cardboard, circular in shape (like an egg) and reinforced with Metal Edges to insure strength, yet retain lightness in weight, is a wonder for safety and durability.

1 dozen Egg Size	\$1.00
2 Dozen Egg Size	1.50
3 Dozen Egg Size	1.75
4 Dozen Egg Size	2.00
6 Dozen Egg Size	2.50
9 Dozen Egg Size	3.25
12 Dozen Egg Size	4.00

COMBINATION CRATES

No. 1—2 lbs. Butter and 1 dozen Eggs.....\$1.50



The Drew Line Chick Feeders

Large capacity Drew Self-Feeders are for baby chicks and for chickens up to three months old. They are made of heavily galvanized copper-bearing sheet steel, designed specifically to meet the peculiar requirements which have been found necessary for the successful Self-Feeder. The trough is deep—3 inches wide at the bottom, 5 inches wide at the top, with body below the feed holes over 2 inches deep.

DB-862, 36-inch Feeder, 3-ft. size	\$.60
DB-813, 12-hole Self Feeder, 13 inches long, wt. 1 1/2 lbs.	.50
DB-825, 24-hole Self Feeder, 25 inches long, wt. 2 1/2 lbs.	.75

Moe's Ideal Poultry Punch

A new Improved Punch. Works easily, cuts clean, and does not pinch the foot. Length 3 1/2 inches. Nickel plate. No. 39—Moe's Ideal Punch.....Each 35c.



LANSDOWNE POULTRY MARKER

Our special price 25c.

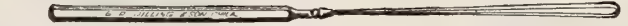


CAPONIZING TOOLS

You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and are of the highest grade. These sets are packed in a neat wooden box.

Philadelphia Set	\$3.50
Farmer's Set	3.50

PHILADELPHIA GAPE EXTRACTOR, 30c. each.



French Poultry Killing Knife

Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 60c.

LICE KILLER AND NEST EGG Combined in One

Lasting, effective. Not expensive. Does not affect the flavor of the egg nor injure it for hatching. 60c dozen.

WIRE HEN NESTS

Each	.....25c
Per Dozen	.....\$2.90

PORCELAIN NEST EGG

The best and cleanest nest egg used. Each, 5c; doz., 40c. By mail, 50c.

LEG BANDS

ALUMINUM BANDS

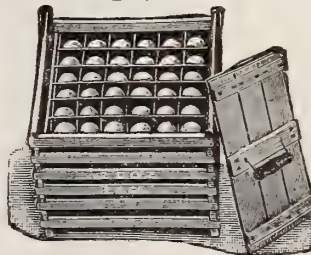
Per dozen	\$.15
Per 50	.50
Per 100	.75

CELLULOID BANDS

Per dozen	\$.15
Per 50	.35
Per 100	.60



Humpty Dumpty Folding Egg Crates



The Humpty Dumpty Egg Carriers are strong and durable cases, the favorite of thousands of shippers in the poultry industry. It delivers the eggs in the best shape, giving the largest return. The eggs it saves soon pays for itself.

Size	Price
3 Dozen	\$.50
6 Dozen	.60
9 Dozen	.70
12 Dozen	.75
15 Dozen	.80
30 Dozen	1.25

Boxes for Fresh Eggs for Market Trade

This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this box a great convenience, as it obviates any mistakes in the count and also avoids any breakage.

Delaware Egg Boxes, two rows for 12 eggs, per 100	\$1.25
Eagle Egg Boxes, three rows for 12 eggs, per 100	.80

SPECIAL PRICES IN QUANTITIES



NESCO DRINKING FOUNTAIN

2 Quarts.....\$.35
4 Quarts..... .40



BOTTOM FILL FOUNTAINS

The round taper shape prevents damage from freezing.

No. Capacity Each
19 1 Quart \$.25
20 2 Quarts .30
24 1 Gallon .45



DROP BOTTOM FOUNTAIN

Drop Bottom, easy to fill and to clean. Has wire handle and may be hung on the wall out of the litter and dirt.

41 1 Gallon 1.00
Packed 6 to case.
42 2 Gallons 1.25
Packed 6 to case.



Wall Fountain

The covered outlet keeps out dust and dirt, and a removable plate prevents any floating rubbish from being drawn into the reservoir.

No. Capacity Each
98 1 Gallon \$1.00
Packed 6 to case.
99 2 Gallons 1.40
Packed 4 to case.



MOE'S "TOP FILL" FOUNTAIN

Automatic Feed
Easy to Fill
and
Keep Clean

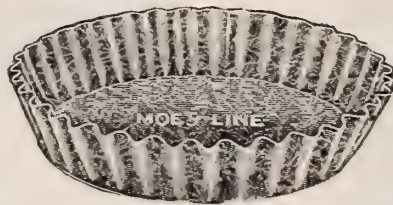
1 Gallon...\$1.35
2 Gallons.. 2.10
4 Gallons.. 2.60
Packed 1 to case.



FEED AND DRINKING CUPS GALVANIZED

Especially suitable for Exhibition Coops.

No. 61—Each\$.15
Doz. 1.80

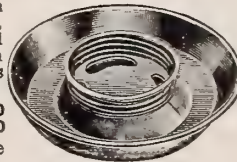


Diameter 17 in. Depth 3 1/2 in.
No. 195—Moe's Steel Pan. Each...\$.60

MASON JAR FOUNTAIN

No. 142. Mason Jar Fountain, made of tin, and is screwed on an ordinary glass jar.

Price, each..\$0.10
Dozen..... 1.20
(Glass jars are not included.)



No. 32 Moe's Star Fountain and Feeder

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. Little chicks cannot drown. Fits any Mason jar in 1 Pint, 1 Quart, and 2 Quart sizes

No. 32 (Glass jar not included), each 10c., doz., \$1.20.

Gross \$14.40 Packed 1 Gross to Case.

Moe's Top Fill Cleanable Fountain



Made of heavy galvanized steel with double walls, which keeps the water cool in summer, and retards freezing in winter.

No. 33. Two gallons. Shipping weight 6 pounds.
Each\$2.10

No. 34. Four gallons. Shipping weight 9 pounds.
Each\$2.60

Moe's Gem Chick Fountains



No. 158

A good, inexpensive fountain for chicks or grown fowls.

1 Gallon. \$.55
6 in box,
15 lbs.
2 Gallons .85
6 in box,
18 lbs.

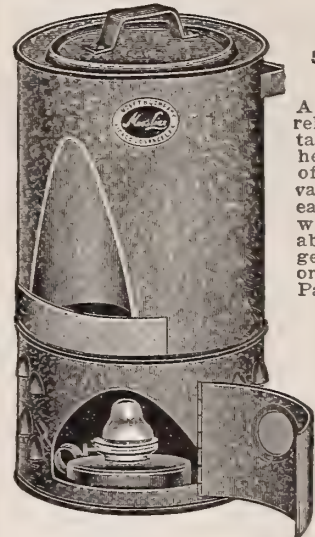


WATER PANS

12 in.....\$.50
14 in..... .75
16 in..... .85

Moe's Winter Fountain

Capacity
5 Gallons



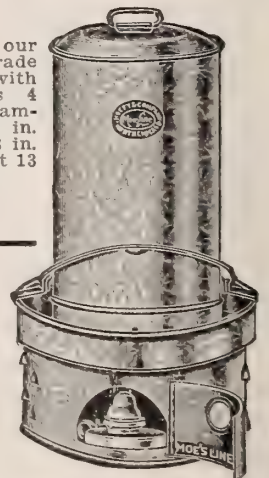
A simple and reliable fountain with heater. Made of heavy galvanized iron, easily filled, with nothing about it to get out of order. Packed 1 to a case

No. 75—Fountain Complete, 5 gal..\$3.50
No. 74—Tank only..... 1.70
No. 10—Heater only..... 1.90
No. 73—10 Gal. Fountain Complete. 4.50
No. 26—1 Gal. Wall Fountain with Removable Bottom..... .65

No. 418—Is our No. 34 High Grade Fountain with heater. Holds 4 gal. water. Diameter of pan 13 in. Total height 23 in. Shipping weight 13 pounds.

Price \$4.50, complete.

Moe's Top-Fill Cleanable Fountain



An inexpensive, cleanable fountain, with round drinking pan and suitable for chicks or grown fowl. Made of galvanized steel. Easy to fill and the water feeds automatically; no valves or complicated parts. Has a substantial side fastener so can be hung on the wall if desired. Capac. 2 gals. Ht. 14 inches. Diam. of pan, 11 1/2 inches. Packed 3 in a carton. Shipping weight, 18 pounds.

No. 40—Moe's Top-Fill Fountain. Each.....\$1.65 Dozen.....\$19.80



Moe's Insulated Double Wall Fountain



Made of best quality galvanized iron, with double walls packed with an efficient insulating material.

The wrought iron stand or rest is hinged, and acts as a handle to carry the fountain.

Plenty of fresh water at the right temperature, in zero or torrid weather will keep your birds healthy and increase the egg yield.

Shipping weight, 16 pounds. Capacity, 3 gallons. Packed one in a box.

No. 8—Each.....\$4.50

BABY CHICK FEEDERS



No. 11—Diameter 6 in. with 8 holes, each 10c. Packed ½ Gross to Case.

No. 12—Diameter 8 ¼ in. with 12 holes, each 20c. Packed ½ Gross to Case.

No. 190. Moe's Enameled Feeder, ea. \$.75

Per dozen 9.00

Packed 24 in a carton. Shipping weight 21 lbs. per carton.

Moe's Buttermilk Feeders

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

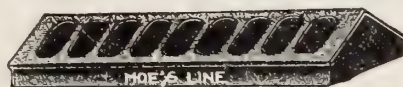
No. 131. Moe's Round Tin Feeders. Diameter 6 inches, with 8 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 55 pounds; per dozen 5 pounds.

Price each... \$.15 Per doz... \$1.80

No. 132. Moe's Round Tin Feeders. Diameter 8 ¼ inches, with 12 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 110 pounds; per dozen 10 lbs.

Price each... \$.30 Per doz... \$3.60

MOE'S DOUBLE FEEDING TROUGHS



No. 58—12 in. \$.25

Packed 24 to case.

No. 59—18 in.40

Packed 12 to case.

No. 60—24 in.50

Packed 12 to case.

No. 76—36 in.65

Packed 12 to case.

No. 21—12 in., Single Row..... .30

Packed 24 to case.

No. 22—18 in., Single Row..... .40

Packed 12 to case.

No. 23—24 in., Single Row..... .50

Packed 12 to case.

No. 55—12 in. Single Row..... .25

Packed 24 to case.

No. 56—18 in. Single Row..... .35

Packed 24 to case.

No. 57—25 in. Single Row..... .40

Moe's Eclipse Feeding Troughs



No. 27—10 inch, Galvanized..... \$.20

Packed 24 to case.

No. 28—20 inch, Galvanized..... .30

Packed 12 to case.

No. 69—10 inch, Aluminum..... .50

Packed 24 to case.

No. 70—20 inch, Aluminum..... .85

Packed 12 to case.



No. 137—10 inch, 10 holes. Packed 24 to case. Each.....25c.

No. 138—20 inch, 20 holes. Packed 12 to case. Each.....35c.

Moe's Insulated Top-Fill Cleanable Fountain **Insulated Double Walls, Top and Bottom**



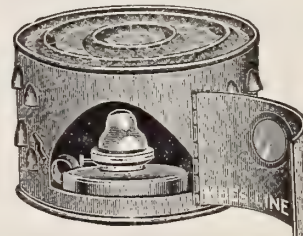
In Winter. Fill with hot water (about 150°) and place in the poultry house. The hot water thoroughly heats the insulated walls, so freezing is retarded. In extremely cold weather it is advisable to add hot water about mid-day. This is necessary only in very cold weather. The fountain should be emptied at night and refilled each morning.

In Summer. Fill with cool water, place in shady spot, and the water will remain cool and fresh all day.

Made in one size only. Capacity 4 gallons. Diameter of pan 14 inches. Total height 17 ½ inches. Packed one in a carton. Shipping weight 16 pounds.

No. 54—Moe's Top-Fill Insulated Fountain. Each.....\$4.50

Moe's Fountain and Brooder Heater



Can be used with all styles of fountains, and effectively prevents water from freezing.

Effectively solves the problem of a uniform supply of fresh, clear water at all times, no matter how cold the weather. It is also an excellent heater for small brooders.

The lamp fount or bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order.

No. 10—Price, each.....\$1.90

Heavy Tin Buttermilk Feeders

Feeding Troughs in Tin Plate. Sliding Top. Easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

Doz.....\$3.00

Doz.....\$4.20

No. 133 MOE'S STAR BUTTERMILK FEEDERS

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

Fits Mason Jars in 1-pint, 1-quart, and 2-quart sizes.

Packed one gross in carton. Shipping weight per gross 35 lbs. Per dozen, 4 lbs.

No. 133. Star Fountain in Tin Plate.

Price, each... \$.10

Dozen 1.20

Gross14.40



Moe's Magazine Chick Feeder and Waterer

A new chick feeder and waterer with a magazine or container to hold a good quantity.

No. 18
2 Qts.\$5.00



Adjustable Milk Fountain

Magazine Feeder in Tin Plate. Adjustable up and down to feed slowly or rapidly, for any kind of milk or feed. Capacity about 2 quarts. Has 12 feeder holes.

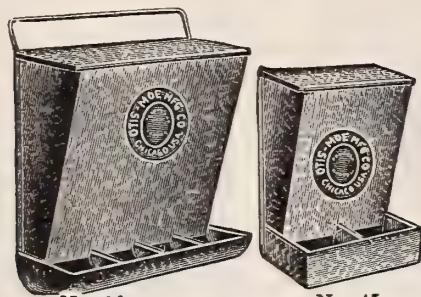
No. 139. Magazine Tin Feeder.

Each\$.75

Per doz... 9.00



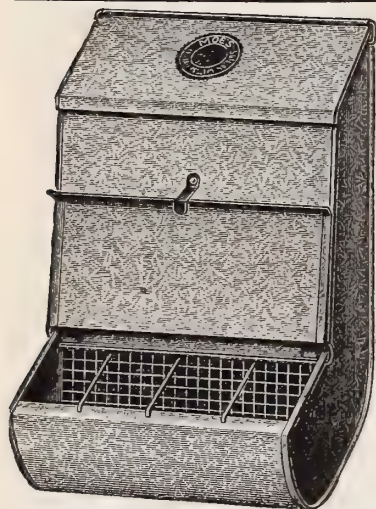
GRIT AND SHELL BOXES



No. 90

No. 45

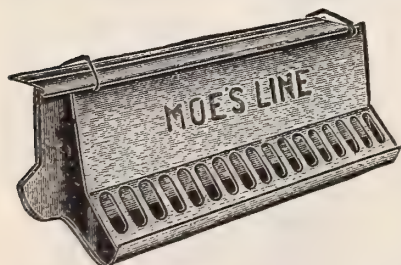
No. 45—Two compartments. Packed 12 to case.....\$.40
No. 9—Three compartments. Packed 6 to case..... .75
No. 90—Four compartments. Packed 6 to case..... 1.00



DRY MASH HOPPERS

No. 35—Width 8½ in.\$1.50
 Packed 6 to case.
No. 36—Width 12 in. 1.70
 Packed 4 to case.
No. 13—Width 18 in. 2.20
 Packed 4 to case.
No. 37—Width 24 in. 2.60
 Packed 2 to case.

MOE'S BIG BOY FEEDER



PRICE
 Each\$4.25

A Feeder especially designed for growing stock—three or four-week-old chicks—and up to full-grown mature fowl.

No. 160—Moe's Big Boy Feeder with sliding cover. Shipping weight 16 lbs.

Each.....\$3.50

No. 161—Moe's Big Boy Feeder with wide adjustable rain cover. Covers project 5¼ inches on each side. shipping weight 18 lbs.

MOE'S TRAP NEST FRONT

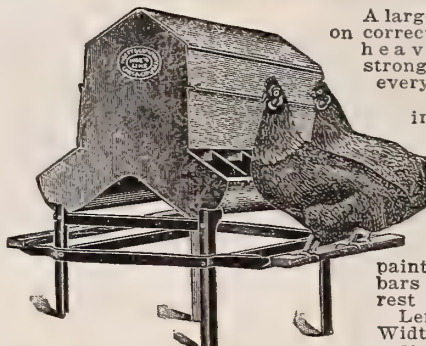
A new inexpensive and useful device which meets a popular demand. Made of best quality galvanized iron, simple in operation.

Can be easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest adaptable to his birds.

Effectively traps the hen, yet allows ample ventilation.

Dimensions 11 in. wide by 12 in. high; 12 to case.
No. 63. Trap nest front. Each....\$.50 Per dozen...\$6.00

MOE'S MAMMOTH DRY MASH HOPPER



A large capacity hopper built on correct principles. Made of heavy galvanized iron, strong and substantial in every detail.

The taper shape and interior construction provides a uniform automatic feed, and the wire grid and cross wires prevents any waste.

The stand is of heavy angle iron, painted, and has wooden bars for the poultry to rest on when feeding.

Length of hopper, 35 in. Width, 21 in. Height, 18½ in.

Capacity, 100 lbs. Height of stand, 15½ in. Total height, 34½ in. Packed one in a box. Shipping weight, 50 lbs.

No. 3 Hopper and stand complete. Price each.....\$10.00

MOE'S FEEDER AND EXERCISER

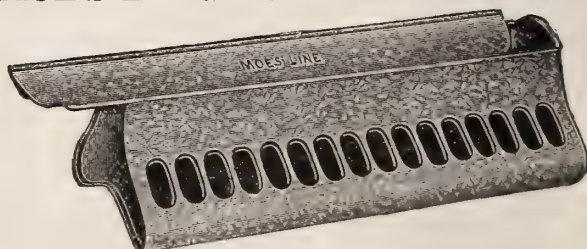


Fill the hopper once a week and let the chicks do the rest. Moe's Automatic Feeder will save more time, and save more feed, than any other fixture in a poultry yard.

Guaranteed to be rain and weather proof, rat and bird proof. Always ready to feed the chickens just as often and just as much as they want to eat, and at the same time makes them scratch and exercise in order to get it. Packed 1 to case.

No. 52—8 Quart.....\$1.25

MOE'S LARGE CAPACITY FEEDER



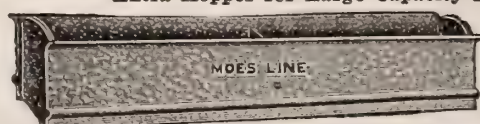
A wonderful feeder for young growing stock, and a great time and labor saver when chicks are raised in large numbers. Made of heavy galvanized iron in two sizes, both with a large capacity.

Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or sides to foul the feed.

No. 140. Feeder, capacity 10 quarts, length 21 in., width 8½ in., height 7 in. 16 openings on each side, so that 32 chicks can feed at one time. Each.....\$1.00

No. 141. Feeder, capacity 17 quarts, length 35 in., width 8½ in., height 7 in. 27 openings on each side, so that 54 chicks can feed at one time. Each.....\$1.60

Extra Hopper for Large Capacity Feeder



No. 146 Hopper for No. 140 Feeder, each 45c.; doz., \$5.40. Packed 6 to case.

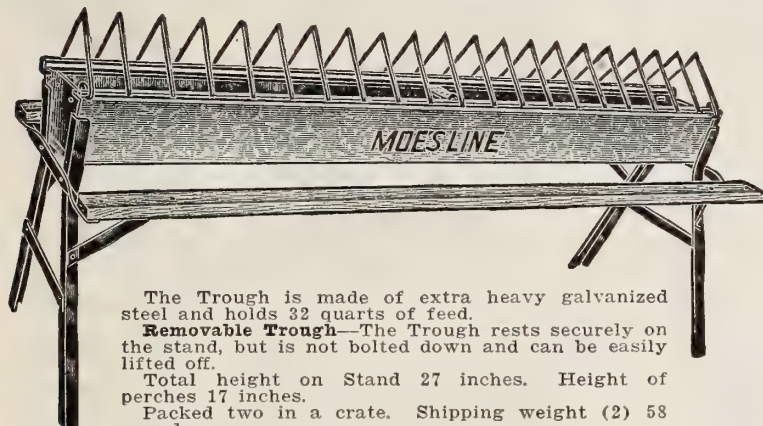
No. 148 Hopper for No. 141 Feeder, each 65c.; doz., \$7.80. Packed 4 to case.

WIDE RAIN COVERS

No. 147 for No. 140 Feeder, each 30c.; doz., \$3.60. Packed 12 to case.

No. 149 for No. 141 Feeder, each 45c.; doz., \$5.40. Packed 12 to case.

MOE'S WIRE GUARD FIVE FOOT FEEDER



The Trough is made of extra heavy galvanized steel and holds 32 quarts of feed.

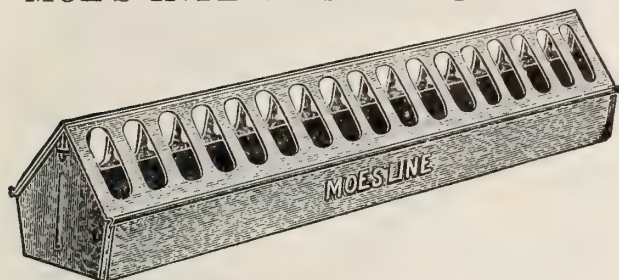
Removable Trough—The Trough rests securely on the stand, but is not bolted down and can be easily lifted off.

Total height on Stand 27 inches. Height of perches 17 inches.

Packed two in a crate. Shipping weight (2) 58 pounds.

No. 355—Complete with Stand and Wire Guards. 5 foot.....\$4.75
No. 356—Trough only, with Wire Guards (no stand)..... 3.00

MOE'S INTERMEDIATE FEEDER



This intermediate size feeder is intended for growing fowl and full grown birds, and fills the requirements of a feeder larger than the chick sizes.

Length of feeder 32 inches, width 8 inches, depth of pan 3½ inches. Capacity 12 quarts of feed. Has a total of 34 feeder holes.

Packed 6 in a carton. Shipping weight 27 pounds.

No. 154—Galvanized Intermediate Feeder. Each.....\$1.20
Dozen14.40

CEL-O-GLASS



CEL-O-GLASS is made of coarse mesh galvanized wire cloth, treated in such a manner that the spaces between the strands are filled with a clear, translucent, tough, flexible substance that will not rub off, peel, or become brittle.

PRICES

3 feet wide.
Per running foot\$.42
100 foot rolls.
Per foot. .40½

IRON POULTRY TROUGHS

Length, 12 inches; Width, 6 inches, with Arched lid.....\$1.00
Length, 18 inches; Width, 6 inches, with Arched lid..... 1.25
Length, 24 inches; Width, 6 inches, with Arched lid..... 3.00
Length, 30 inches; Width, 6 inches, with Arched lid..... 4.50
No. 2—Length 6 inches, V-shaped with lid.....\$.60
No. 4—Length 12 inches, V-shaped no lid..... .75
No. 5—Length 18 inches, V-shaped no lid..... .90
No. 6—Length 24 inches, V-shaped no lid..... 2.00

MOE'S OAT SPROUTER

Steel frame, well braced and painted. With six heavily galvanized iron pans which are interchangeable. Provides the very necessary green feeds at all seasons.

Total Height 3 feet. Size of pans 16x18 inches.

No. 110—Oat Sprouter,
Each\$5.50



MOE'S PEERLESS FEEDERS

For chicks and growing fowl. Suited for either large or small flocks. The magazine or hopper is adjustable up or down for different

ent kinds of mash and feed and can be set to feed slowly or rapidly. Thirty chicks can feed at one time.

No. 192—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 12 inches. Capacity 10 quarts. Packed 1 in a carton. Shipping weight 6 pounds.

Each\$1.35
Per dozen.....16.20

No. 193—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 18 inches. Capacity 18 quarts. Packed 1 in a carton. Shipping weight 7 pounds.

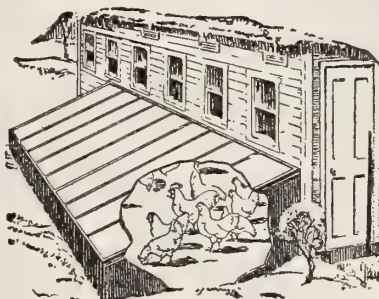
Each.....\$1.75



No. 193

Per dozen.....\$21.00

GLASS CLOTH MUCH CHEAPER THAN GLASS



GLASS CLOTH is a strong fabric treated by a patented process to make it transparent, weather-proof and water-proof. It costs much less than glass and for many purposes is superior. Anyone can put it up. It admits abundant light which it diffuses and scatters to all parts of the enclosure. It comes in rolls 36 inches wide and any length.

The popularity of **GLASS CLOTH** has been sensational.

PRICE

1 yard, (9 sq. ft.).....\$.40
5 yards, (45 sq. ft.)..... 1.85
10 yards, (90 sq. ft.)..... 3.50
15 yards, (135 sq. ft.)..... 5.00
50 yards, (450 sq. ft.)..... 16.50
100 yards, (900 sq. ft.)..... 32.00

WATER GLASS

Put up expressly for packing away eggs, when they are plentiful and cheap. During the summer months especially eggs are much cheaper than they are in the winter time. With this preparation you can pack them away, and have a supply of fresh eggs all winter. One gallon of this solution is sufficient to mix with enough water to pack away fifty dozen eggs. Use 1 part **Water Glass** to 9 parts of water.

At a cost of only one cent a dozen, you will be able to save anywhere from fifteen to thirty cents on the dozen, and have the satisfaction of having your own eggs.

Price: 1-qt. can...\$30 1-gal. can...\$1.00 5-gal. can...\$4.00

Planet Jr. Combined Seeder and Single Wheel Hoe No. 4

The No. 4 Seeder and Wheel Hoe is the most useful combination available for the Home or Market Gardener. Sows all vegetable seeds in the drill or drops in hills 4, 6, 8, 12 or 24 inches apart. Fine assortment of cultivating attachments take care of all garden work.

Capacity of seed hopper $2\frac{1}{2}$ quarts. Quickly changed from hill to drill seeder and from seeder to wheel hoe.

No. 4 Hill and Drill Seeder and Single Wheel Hoe Combined\$18.00
No. 4-D Seeder only 14.25

No. 25 Hill and Drill Seeder Double and Single Wheel Hoe Combined

Price \$21.50

The "Complete Gardener." Sows all vegetable seed in the drill and drops in hills 2, 6, 8, 12 and 24 inches apart. As a Double Wheel Hoe it straddles the row, cultivating both sides at one time until the plants are 20 in. high. Cultivating attachments consist of 1 pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth and a pair of leaf lifters.

Nos. 3 & 5 Planet Jr. Hill and Drill Seeder

These seeders are undoubtedly the most favored by market gardeners and other large commercial growers. They are identical in operation and construction, the only difference being that the No. 3 has a 15-inch drive-wheel and holds 3 quarts of seed, while the No. 5 has a 16½-inch drive-wheel and holds 5 qts. of seed.



No. 3 \$17.50
No. 5 20.00

No. 300 Planet Jr. Drill Seeder

Capacity 4 Quarts

Price \$20.00

There has always been a demand for a quality seeder which will sow through holes in a plate rather than through a variable diamond-shaped opening.

Accurate Seeding

The seed is pushed through a hole in the plate by a patented feed wheel of a new type.



No. 19 Garden Plow and Cultivator

Packed Weight 18 lbs.
15-inch steel wheel.

Equipment

One 2-inch cultivating tooth.
One 10-inch sweep.
One plow.
One 5-prong cultivating attachment.
Price \$5.75



No. 12 Planet Jr. Single and Double Wheel Hoe

The most popular combination of Double and Single Wheel Hoe for the Market Gardener and Home Gardener in use today. The assortment of cultivating attachments consisting of one pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth, and 1 pair of leaf lifters. Cultivates both sides at one time.



Price \$10.75 No. 11, with 4½ in. Hoes and 4 Rakes, \$13.75

No. 17 Planet Jr. Single Wheel Hoe

As Illustrated \$7.75

No. 16—With Rakes and Leaf Guard, \$9.00

No. 18—With 2 6-inch Hoes only \$5.75



Fire Fly Garden Plow

This is an exceedingly useful tool to owners of small gardens. It will throw a furrow 4 to 6 in. wide and 1 to 3 inches deep.



Price \$4.25

No. 119 Planet Jr. Garden Plow and Cultivator

Equipment

One 1½-inch cultivator's tooth.
One 4-inch cultivating tooth.
One plow.
One reversible scuffle blade.

Price \$4.00



No. 119 has a wheel, with 3x3x3 inch steel spokes, very strong, 24 inches in diameter. The plow opens a good furrow, covers equally well, and can be used for "plowing" growing crops, and "hilling up."

Five-Tooth Weeders Attachment

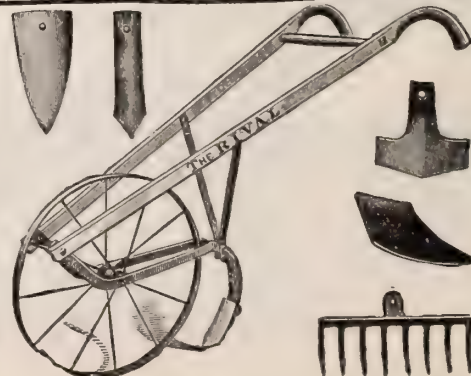
Can be attached to any of the Garden Plows.
Price \$1.00 Each.



"Rival" Garden Plow Complete

PRICE \$3.75

Mould	50c.
Sweep	45c.
Large Blade	30c.
Bull Tongue	25c.
Rake	50c.
Wheel	\$1.50
Weeder	40c.



STEEL RAKES

- No. 10 C**—Curved tooth, 10-tooth...\$.95
No. 12 C—Curved tooth, 12-tooth... 1.00
No. 14 C—Curved tooth, 14-tooth... 1.05
No. 16 C—Curved tooth, 16-tooth... 1.15
No. 18 C—Curved tooth, 18-tooth... 1.25

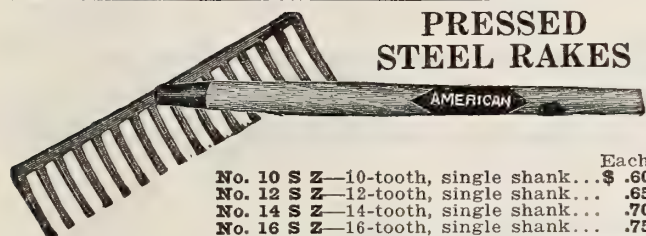


- No. 10**—Straight tooth, 10-tooth...\$.75
No. 12—Straight tooth, 12-tooth... .80
No. 14—Straight tooth, 14-tooth... .90
No. 16—Straight tooth, 16-tooth... 1.00
No. 18—Straight tooth, 18-tooth... 1.10

BOW STEEL RAKES

- No. B 12**—Prize bow-braced rake, solid steel, 12 teeth. **Price, \$1.10 each.**
No. B 14—Prize bow-braced rake, solid steel, 14 teeth. **Price, \$1.20 each.**
No. B 16—Solid bow-braced rake, solid steel, 16 teeth. **Price, \$1.30 each.**

PRESSED STEEL RAKES



- Each
No. 10 S Z—10-tooth, single shank...\$.60
No. 12 S Z—12-tooth, single shank... .65
No. 14 S Z—14-tooth, single shank... .70
No. 16 S Z—16-tooth, single shank... .75

EXTRA HEAVY STEEL ROAD RAKES

- No. X 12**—12-tooth...\$1.35
No. X 14—14-tooth... 1.40
No. X 16—16-tooth... 1.50

STEEL ASPHALT RAKES

- No. 1014**—14-tooth, strap ferrule...\$2.10

WIRE LAWN RAKES No. 124



21-inch head. 24 Teeth, with Handle, 80c. each.

BAMBO RAKES

These Rakes are very light and strong. And are very serviceable. Used somewhat like a broom. Fine for leaves, acorns and grass.



- 18-inch, with Bambo Handle...\$.40
 18-inch, with Wood Handle... .70
 28-inch, with Wood Handle... 1.00

GRITCO WOOD RAKE

- 24-Tooth, 3 Wire Bows...\$.75
 20-Tooth, 1 Wire Bow... .50
 Extra Teeth, 3c. Each

No. 1 SOD LIFTER

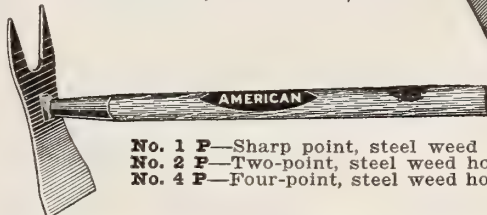
Each \$2.00



GARDEN HOES

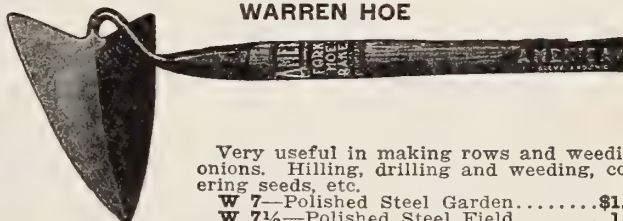


- No. GO-67**—Solid Steel Garden Socket Hoe, XX Handle; each...\$1.05
No. G 67—Solid Steel Garden Shank Hoe, XX Handle; each...\$0.95
No. GO-78—Solid Steel Garden Socket Hoe, XX Handle; each...\$1.10
No. L Y 5—Solid Steel Lady's Shank Hoe, XX Handle; each...\$0.75



- No. 1 P**—Sharp point, steel weed hoe...\$.50
No. 2 P—Two-point, steel weed hoe... .60
No. 4 P—Four-point, steel weed hoe and rake 1.00

WARREN HOE



Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.

- W 7**—Polished Steel Garden...\$1.15
W 7½—Polished Steel Field... 1.25

CRESCENT CULTIVATOR HOE

- No. 67**—7-inch steel blade, 4½-foot handle...\$1.10



STREET HOE

- No. 12 S**—12-inch blade, steel shank, 6-foot handle...\$1.60

DIG-EASY MATTOCK HOES

This Hoe is similar to Crescent Double-Bit Hoe, and is made in three sizes.

- No. D E 2**—1½-inch and 2-inch blades...\$1.00
No. D E 3—1½-inch and 3-inch blades... 1.05
No. D E 3½—1½-inch and 3½-inch blades... 1.10

PLANTER HOES

- No. P 75**—Heavy-Handled Planter Shank Hoe, 7-in. blade...\$1.00
No. P 7½-5—Heavy-Handled Planter Shank Hoe, 7½-inch blade... 1.10
No. P 8½-5—Heavy-Handled Planter Shank Hoe, 8-inch blade... 1.15

COTTON HOES

- No. C 75**—7-inch, Handled Cotton Hoe...\$.95
No. C 85—8-inch, Handled Cotton Hoe... 1.05

MORTAR HOES


- No. S 9**—9-inch Blade, Solid Socket, 5½-foot Handle...\$1.30
No. S 10—10-inch Blade, Solid Socket, 6-foot Handle... 1.40

F. B. R. No. 22 STEEL BRUME RAKE



Being made of steel it is light and very flexible. Price, \$.90.

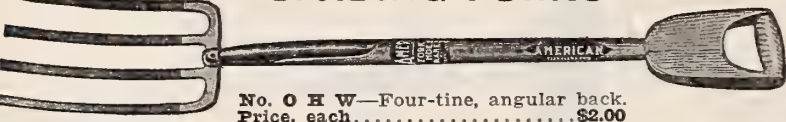
HAY FORKS

- 
- Each
- No. 26—Two-tine hay, common ferrule, 6-foot straight handle.....\$1.30
- No. 026—Two-tine, strap ferrule, 6-foot straight handle... 1.45
- No. 027—Two-tine, strap ferrule, 7-foot straight handle... 1.75
- No. 028—Two-tine, strap ferrule, 8-foot straight handle... 1.95
- No. 36—Three-tine, 6-foot handle, common ferrule..... 1.40
- No. 036—Three-tine, 6-foot handle, strap ferrule..... 1.55
- No. 037—Three-tine, 7-foot handle, strap ferrule..... 1.80
- No. 038—Three-tine, 8-foot handle, strap ferrule..... 2.00

Long Handle Manure Forks

- 
- All With Strap Ferrule.
- Each
- No. 044½ **X**—Four-tine, 4½-foot handle.....\$1.50
- No. 054½ **X**—Five-tine, ferrule, long handle..... 1.70
- No. 064½ **X**—Six-tine, ferrule, long handle..... 1.90
- BACHELOR FORK.**
- No. 044—Four-tine, 4-foot handle.....\$1.70
- D-HANDLE MANURE FORKS.**
- No. 04 **D**—D Handle, four-tine.....\$1.50
- No. 05 **D**—D Handle, five-tine..... 1.70
- No. 06 **D**—D Handle, six-tine..... 2.00
- No. 151—Four-tine, diamond tine, heavy, malleable D handle..... 2.15
- No. 153—Four 16-inch extra heavy tines. 27-inch wood D handle..... 2.35
- No. 157—Five 16-inch extra heavy tines. 27-inch wood D handle..... 3.00

SPADING FORKS

- 
- No. **O H W**—Four-tine, angular back. Price, each.....\$2.00
- No. **O L D**—Medium weight, angular tine, malleable D handle, strap ferrule. Price.....\$1.55
- No. **J O W**—Jumbo. 4 polished tines, extra heavy strapped ferrule, wood D handle. Price..... 2.20
- No. **B 4 D**—Boys' four-tine. Price..... 1.00

SCUFFLE HOES

- No. **X G S** Brace or Shank Scuffle Hoe. 8-inch Steel Blade, with Handle....\$1.20



EDGING KNIFE

- No. 040—Solid Steel Turf Edger, \$1.15



WITH PLAIN AND STRAP FERRULE.

- No. **X**—4½ ft., with plain ferrule, with cap. List, Doz., \$6.25; Retail, Each, 50c.
- No. **X**—4½ ft., with strap ferrule and cap. List, Doz., \$7.70; Retail, Each, 60c.

MANURE FORK HANDLES.

- Plain. List, Ret'l, Doz. Ea.
- No. **X**—4½ ft.....\$5.00 \$.40
- HAY FORK HANDLES.**
- Plain. Doz. Ea.
- No. **X**—6 ft.....\$6.25 \$.50
- No. **X**—7 ft..... 10.00 .75
- No. **X**—8 ft..... 14.20 1.10

GENERAL UTILITY FORK

- No. 910—Ten-tine, scoop shape, malleable D handle, strap ferrule. Each.....\$2.80
- No. 912—Twelve-tine, scoop shape, malleable D handle, strap ferrule. Each.....\$3.15



- No. 712 — Coke Forks, twelve-tine, D handle, strap ferrule. Each.....\$3.15
- No. 100 **S**—Ten-tine, D handle, stone fork..... 2.80
- No. 102 **S**—Twelve-tine, D handle, stone fork..... 3.25

WIRE POTATO SCOOP



STEEL BARLEY FORKS

- No. **B 0185**—Four 18-inch oval tines, strap ferrule, 5-foot bent handle.....\$2.15

ENSILAGE FORKS

- Each
- No. 508—Eight 16-in. tines, strap ferrule, iron D handle.....\$2.50
- No. 510—Ten 17-in. tines, strap ferrule, iron D handle... 2.90

GARDEN SETS

- No. 3 **P F**—3-piece, 5-T Rake, Shovel and Hoe, \$1.75.



Planet Jr.

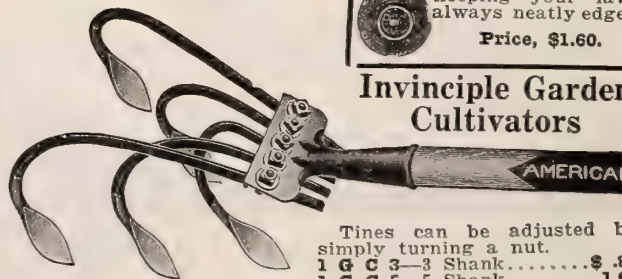
No. 2

Lawn Edger

Everyone who uses a lawn mower has work for one of these Edgers; adjustable for a tall or short person. Indispensable in keeping grounds looking neat and attractive, the No. 2 Edger will quickly edge the grass bordering all walks, straight or curved, cement, stone or brick. It is easily operated; in fact, it is so much like play to use it that you will find pleasure in keeping your lawn always neatly edged.

Price, \$1.60.

Invincible Garden Cultivators



Tines can be adjusted by simply turning a nut.

1 **G C 3**—3 Shank.....\$.80

1 **G C 5**—5 Shank..... 1.00

SIDEWALK CLEANERS

- No. **O S C**—7-inch Solid Socket; Handle....\$.95
- No. 770—8-inch Steel Blade..... .80

SHOVEL HANDLES.

- Doz. Ea.
- No. **X**—L. H., 4½ feet.....\$5.70 \$.45
- No. **X**—D. H..... 9.00 .85

RAKE HANDLES.

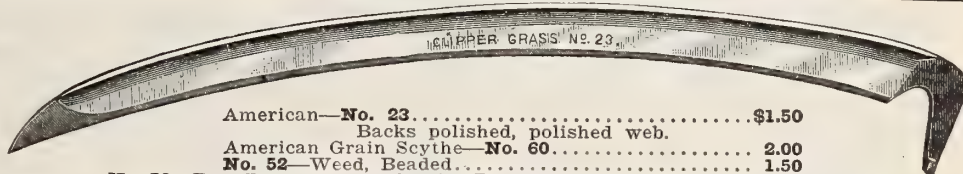
- List, Ret'l, Doz. Ea.
- No. **X**—5½ ft.....\$5.00 \$.40

GARDEN HOE HANDLES.

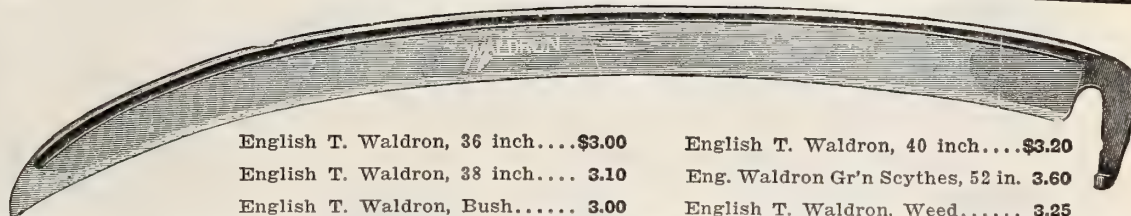
- Doz. Ea.
- No. **X**.....\$3.75 \$.30
- EYE HOE HANDLES.**
- List, Ret'l, Doz. Ea.
- No. **X**—5 ft. 2 in. butt.....\$5.40 \$.40

Blood's Bush and Brier Hooks

No. 10—Axe Handle Hook...\$1.60

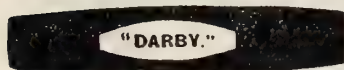


American—No. 23.....\$1.50
Backs polished, polished web.
American Grain Scythe—No. 60..... 2.00
No. 52—Weed, Beaded..... 1.50
No. 50—Best Bush or Briar Scythe, Beaded, American Pointed. Price, \$1.50



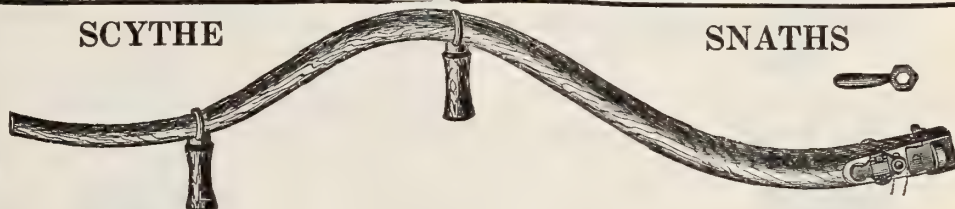
English T. Waldron, 36 inch....\$3.00 English T. Waldron, 40 inch....\$3.20
English T. Waldron, 38 inch.... 3.10 Eng. Waldron Gr'n Scythes, 52 in. 3.60
English T. Waldron, Bush..... 3.00 English T. Waldron, Weed..... 3.25

Scythe Stones



Each.
English Talacre.....30c.
Quinnebog.....15c.
English Round.....20c.
Darby Creek.....20c.
No. 192 Alxite Scythe Stone.....35c.
No. 198 Alxite Scythe Stone.....30c.
No. 192 Carborundum Scythe Stone.....35c.
No. 57 Carborundum File.....95c.
No. 64 Strap Stone.....35c.

SCYTHE



No. 55—Patent Loop, solid plate, iron trimmed. Retail price.....\$1.50
No. 100—Two Rings, Bush Snath. Retail price..... 1.65
No. 105—Patent Bush Snath. Retail price..... 1.65

SNATHS

Lightning Pattern Hay Knife

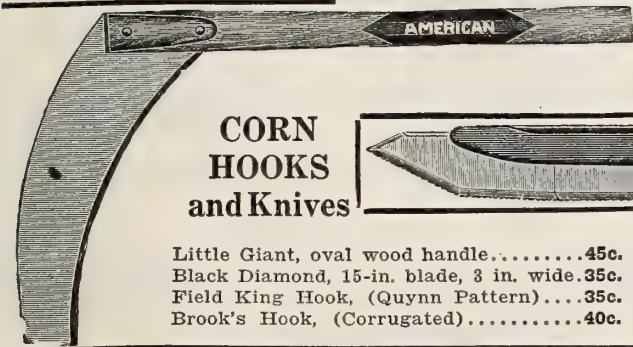


Price\$1.75

The American Sickle Edge Hay Knife

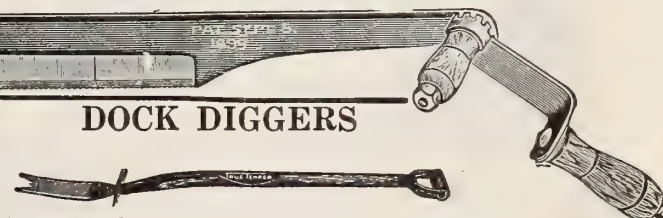
The best cutting knife made. Right or left hand. Section can be easily replaced. Price.....\$1.75

CORN HOOKS and Knives



Little Giant, oval wood handle.....45c.
Black Diamond, 15-in. blade, 3 in. wide.35c.
Field King Hook, (Quynn Pattern)...35c.
Brook's Hook, (Corrugated).....40c.

DOCK DIGGERS



No. 39 D—Square Point.....\$1.50
No. 39 A—V Point..... 1.60

POTATO HOOKS

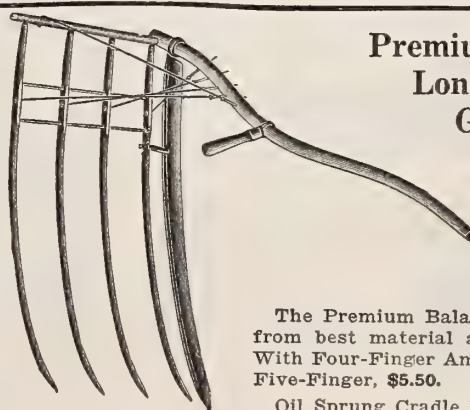


No. 4 B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-foot Handle.....\$1.20
No. 5 B. O. H.—5 Tines, Heavy, Broad Oval Tines, Bent Head, 5-foot Handle..... 1.45

MANURE HOOKS

No. M 40—Four Oval Tines, Bent Head, Plain Ferrule, 5-foot Handle.....\$1.30
No. M 60—Six Oval Tines, Bent Head, Plain Ferrule, 5-foot Handle..... 1.50

Premium Balance Long Sweep Grain Cradle



The Premium Balance Cradle is made from best material and nicely finished. With Four-Finger American Blade, \$5.00. Five-Finger, \$5.50.
Oil Sprung Cradle Fingers, 30c. each.

NAYLOR BRAND Plain Back SHOVELS

The blade and straps are made from separate pieces of steel; the straps are welded to the blade. In the blade, stiffness, strength and resistance to abrasion are essential. In the strap, steel is required which is tough, yet ductile enough to conform to the curve as well as the round of the handle.

Long Handle Round Point Shovels



No. 1047—Size 2, Long Handle, Round Point Shovel.....\$1.00

Round Point Dee Handle Shovels



No. 1037—Size 2, D Handle, Round Point Shovel.....\$1.00

Dee Handle Square Point Shovels



No. 1017—Size 2, D Handle, Square Point Shovel.....\$1.00
No. 1017—Size 3, D Handle, Square Point Shovel..... 1.10
No. 1017—Size 4, D Handle, Square Point Shovel..... 1.20

Dee Handle Spades



No. 1177—Size 2, Standard Spade, Long Handle.....\$1.00
No. 1166—Size 2, Standard Spade, D Handle..... 1.00
No. 1205—18-inch Ditching Spade, D Handle..... 1.70
No. 1215—18-inch Drain Spade, Round Point, D Handle... 1.70

Western Pattern Scoops



No. 1627—Size 4, D Handle, Western Pattern Scoop Sh'l. \$1.00
No. 1627—Size 6, D Handle, Western Pattern Scoop Shovel 1.10
No. 1627—Size 8, D Handle, Western Pattern Scoop Shovel 1.20
No. 1628—Size 4, Long Handle, Western Pat. Scoop Shovel 1.00
No. 1628—Size 6, Long Handle, Western Pat. Scoop Shovel 1.10
No. 1628—Size 8, Long Handle, Western Pat. Scoop Shovel 1.20

Furnace Scoops



No. 805—Furnace Scoop.....\$.75

Snow Shovels



No. 91-2R—General Purpose Snow Shovel.....\$.60

Ames Shovels and Spades

GENUINE OLIVER

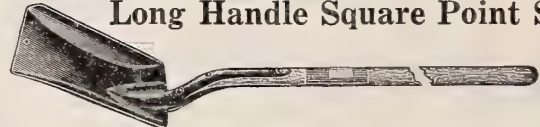
Each shovel and spade which bears the signature "Oliver Ames," is your continued guarantee of matchless service. It is identified by the genuine O. AMES Label. Significant of the O. AMES grade, is the blade of Ames special alloy; heat treated for maximum resistance to abrasion; with selected second growth Northern Ash, extra strong, fine grained handle.

Long Handle Round Point Shovels



No. 45—Long Handle, Round Point Shovel.....\$2.00

Long Handle Square Point Shovels



No. 25—Long Handle, Square Point Shovel.....\$2.00

Square Point Dee Handle Shovels



No. 15—D Handle, Square Point Shovel.....\$2.00

Dee Handle Spades



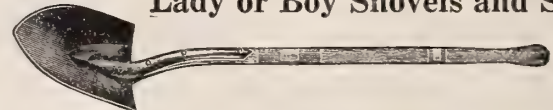
No. 75—D Handle, Standard Spade.....\$2.00

Nursery Spades



No. 70—D Handle, Full Strapped Nursery Spade.....\$4.25

Lady or Boy Shovels and Spades



No. 60—Lady or Campers Shovel.....\$1.25
Ladies' or Boys' Spade..... 1.25

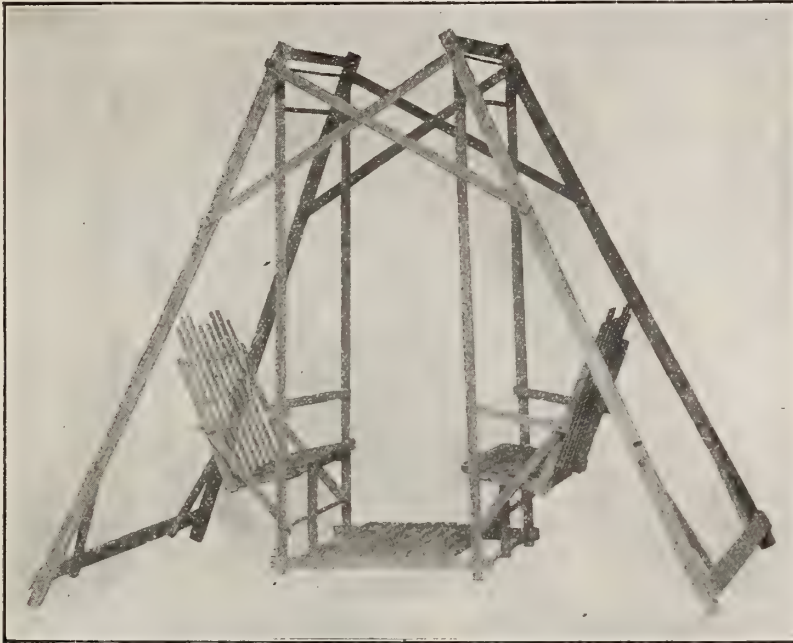
PICKS, MATTOCKS AND GRUB HOES



No. 1 Gritco—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality Warranted Steel Railroad Picks.....\$1.10
No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular Iron Railroad Picks..... .90
No. 1 Gritco—5-lb. Best Quality War, Steel Mattocks.... 1.05
No. 1 Gritco—6-lb. Best Quality War, Steel Mattocks.... 1.15
No. 2—5 and 6-lb. Best Refined Iron Mattocks (Steel Cutters)..... Each, 1.05
No. 1 and 2 Gritco—Warranted Steel Grub Hoes.... Each, 1.00

Pick and Mattock Handles

First Quality Hickory Pick Handles.....\$.50
No. 1—Good Quality White and Red Hickory Pick Handles .45
No. 2—Mixed White and Red Hickory Pick Handles..... .40



Lawn Swing—The Bonanza

Accompanying cut represents our "Bonanza" four-passenger Lawn Swing. Made of hardwood, with $\frac{3}{4}$ -inch bolted frame.

Has three seat and foot-rest adjustments. Frame painted red; balance of swing golden oak. Hooks where swing bars hang on iron rods at top of frame.

Height	9 ft.
Seat Space.....	34 in.
Ground Space.....	9 ft 4 in. x 6 ft.
4-Passenger	\$12.00

Bausman Steel Lawn Swing



With Canopy...\$17.00
Without Canopy 15.00

It is Noiseless—As the suspension frame swings on leather bearings. **It is Safe**—For children nothing to pinch them. The floor swings close to the ground.

It is Erected Easily—Shipped in three parts. Instructions with each swing.

Seat—Is 30 inches wide; back, 29 inches high; wooden arm rests.

Height of Frame—Is 7 feet. Floor space required 5x8 feet.

Weight—Is 150 pounds.

Child's Lawn Swing

This is a nicely made swing especially for children. Made in both two and four passenger. Every child would delight in having one of these swings. There is nothing that would give them as much pleasure.

PRICES

2 Passenger.....	\$6.75
4 Passenger.....	8.50

Winner Lawn Swing

This Lawn Swing is made of hardwood, frame painted a bright vermilion, chairs, hangers and foot-rest a beautiful golden oak, and is a splendid value for the money.

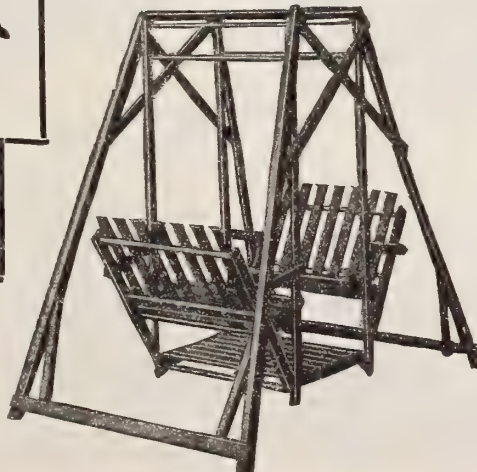
4-Passenger.....\$10.50

No. 7 Porch Settee



Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets.

No. 7—5-foot. Our Special Price...\$7.25
No. 6—4-foot. Our Special Price... 5.25



LAWN SETTEES

The Lawn Settees listed below, have strength and beauty, and at the same time are very reasonable in price. The frames are made from strong steel, and the seats and backs from smoothly finished hardwood.

Meadowbrook Settee



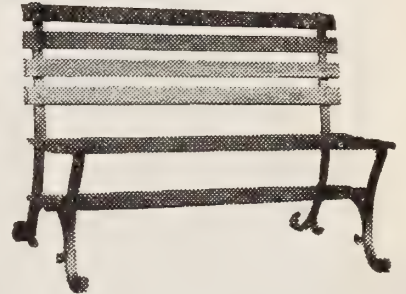
4 Foot.....	\$7.00
5 Foot.....	8.00

Commonwealth Settees



4 Foot.....	\$6.00
5 Foot.....	7.00

Country Club Settees



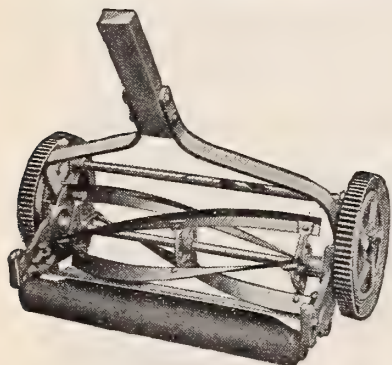
4 Foot.....	\$5.25
5 Foot.....	6.00

Parkside Settees



4 Foot.....	\$4.25
5 Foot.....	5.00

WHITMAN & BARNES LAWN MOWERS

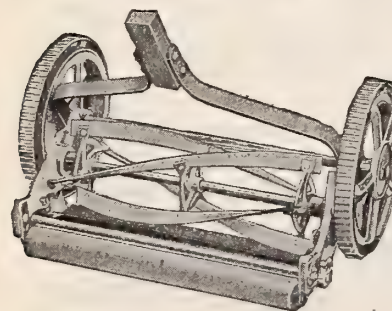


CAROL LAWN MOWER

Eight-inch wheel. This is a very nice Lawn Mower. High-grade material being used throughout. Has four blades, 5½-inch revolving cylinder with ball-bearings.

Ball-Bearings

12 inch.....	\$7.00
14 inch.....	7.50
16 inch.....	8.00



HUMMER LAWN MOWER

This is a High-Grade High-Wheel Lawn Mower, 10¼ inches high. It has a four-blade, six-inch revolving cylinder. We recommend this mower to any one having the average size suburban lot.

Ball-Bearing

14 inch.....	\$8.50
16 inch.....	8.75
18 inch.....	9.75



BALTIMORE HORSE LAWN MOWER

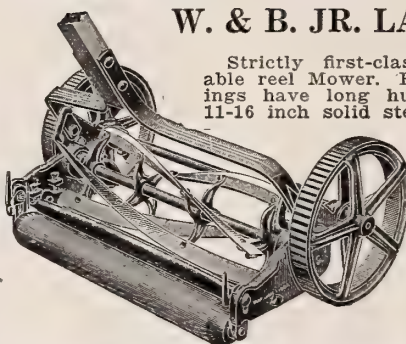
The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjustment of knives; strong and durable; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned.

Price

30-inch Machine, with Shafts and Seat.....	\$170.00
35-inch Machine, Shafts and Seat.....	200.00

LITTLE SHAVER MOWER

Low priced and good. 12 in., \$5.80. 14 in., \$6.20. 16 in., \$6.80.

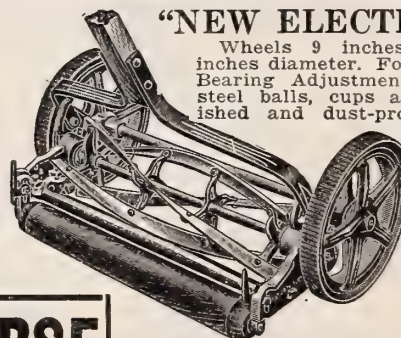


W. & B. JR. LAWN MOWERS

Strictly first-class, high-wheel, adjustable reel Mower. Built very strong. Casings have long hubs, through which an 11-16 inch solid steel shaft is passed.

Ball Bearings.

14 inch.....	\$11.20
16 inch.....	12.00
18 inch.....	12.80
20 inch.....	14.00



"NEW ELECTRIC" MOWERS

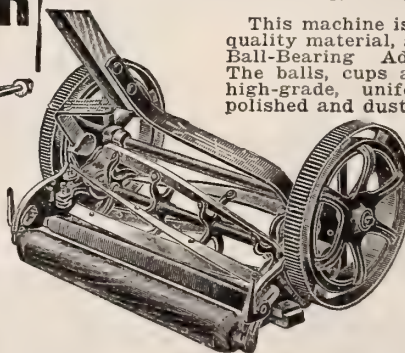
Wheels 9 inches diameter. Reel 5¼ inches diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel shaft cold-rolled steel. Reel knives best grade Knife Steel, perfectly ground.

Regular

12 inch.....	\$7.75
14 inch.....	8.25
16 inch.....	8.75

Ball Bearings

12 inch.....	\$8.50
14 inch.....	9.00
16 inch.....	9.60



DIAMOND SPECIAL BALL-BEARING MOWER

This machine is built of highest quality material, and is fitted with Ball-Bearing Adjusting Device. The balls, cups and cones are of high-grade, uniformly hardened, polished and dust-proof. The reel

has five blades of best knife steel, and is adjusted to the Cutter Bar by a special adjusting and locking device. Wheels, 10 inches in diameter.

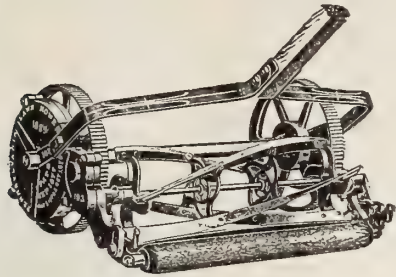
14 inch...	\$14.60
16 inch...	15.60
18 inch...	16.60
20 inch...	17.60

LAWN MOWER REPAIRING AND SHARPENING

Our well-equipped shop and competent mechanics, that have been repairing and sharpening lawn mowers for years, assures you of a first-class job. In a season we repair many hundreds of lawn mowers, and as most of them have to be repaired and sharpened before the first grass mowing, you will readily see the necessity of sending your mower in early. During the early season we run our repair department many times at night that we might give our patrons prompt service.

Our repair department does not confine its operation to sharpening and repairing lawn mowers only. We are in position to do general repair work and solicit your patronage in other lines of work.

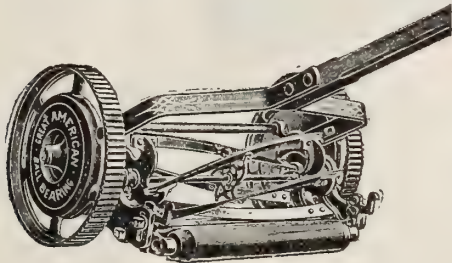
Pennsylvania High-Wheel Mower



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10½ inches; cylinder, 6½ inches. Four crucible steel knives.

15 inches.....	\$27.00
17 inches.....	30.60
19 inches.....	34.20

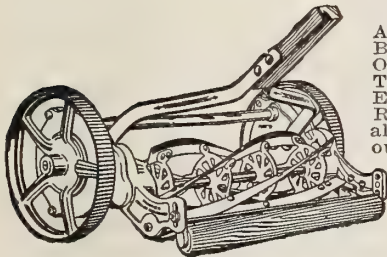
Great American Ball-Bearing Mower



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from ¾ to 1½ inches from the ground.

15 inches.....	\$19.00
17 inches.....	21.00
19 inches.....	23.00
21 inches.....	25.00

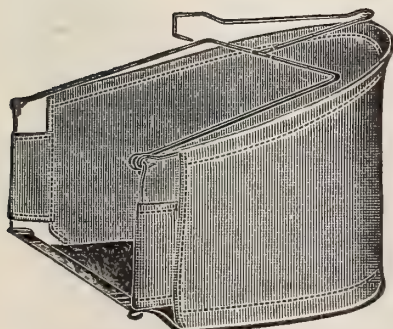
Senior Mower



Timken Bearings, Self-Adjusting Triple Gears, 5-Blade Reel, 10-inch Wheel, Open Spoke, 6-inch Reel. Triple Gears on both sides, Extra Long Wheel Base. Raised Edge Bottom Knife, allowing long wear without sharpening.

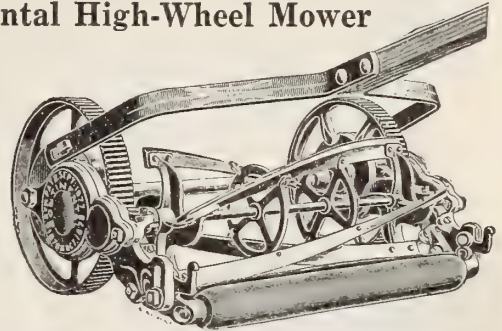
14 inch.....	\$20.00
16 inch.....	21.00
18 inch.....	22.00
20 inch.....	23.00

Grass Catcher



Price
No. 156H—16 to 20 inches wide. Price.....\$.80
1.00

Continental High-Wheel Mower

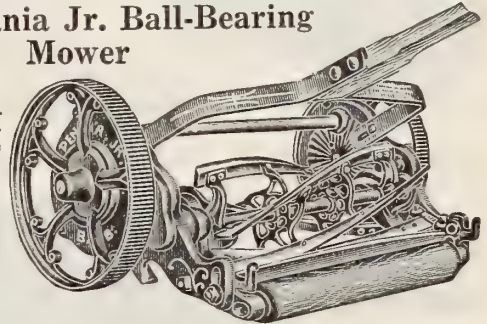


This very high - grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

15 inches.....	\$27.00
17 inches.....	30.60
19 inches.....	34.20

Pennsylvania Jr. Ball-Bearing Mower

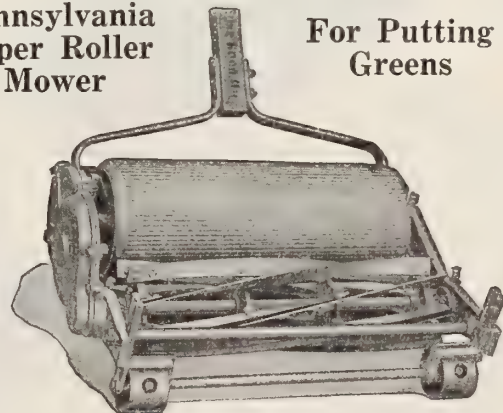
Same high-grade construction used in the Pennsylvania High-Wheel and Continental Mower.



15 ins....	\$27.00
17 ins....	30.60
19 ins....	34.20
21 ins....	37.00

Pennsylvania Super Roller Mower

For Putting Greens



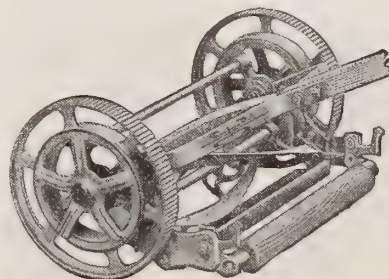
This mower is unexcelled for cutting undulating or wavy greens, also tennis courts, cricket creases and other Lawns requiring an exceptionally close and smooth cut.

It has seven crucible tool steel blades oil-hardened and water tempered Triple gears, insuring power and speed, cast-iron roller, 7 inches in diameter, improved curved pattern tempered crucible steel tool bottom knife, cuts ½ to 1½ inch. Staytite hardwood handle with adjustable steel clamps on cross bar.

PRICE

18 inch.....	\$50.00
Grass Box.....	8.00
Carriage	5.00

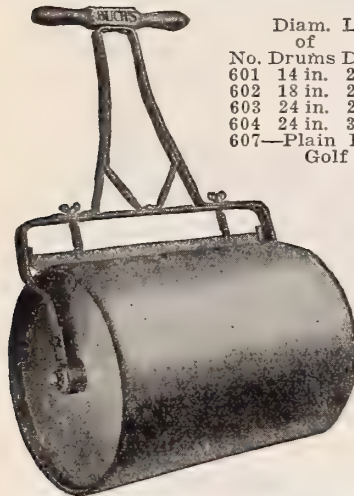
Willow Brook Ball-Bearing Mower



This machine is made from high-grade material. Its construction, while extremely simple, is very strong and durable.

14 inch.....	\$7.75
16 inch.....	8.25
18 inch.....	8.75

WATER BALLAST LAWN ROLLER



No.	Diam. of Drums	Length of Drums	Weight Empty	Filled with Water	Price
601	14 in.	24 in.	60 lbs.	250 lbs.	\$15.00
602	18 in.	24 in.	73 lbs.	330 lbs.	17.50
603	24 in.	24 in.	100 lbs.	440 lbs.	20.00
604	24 in.	32 in.	115 lbs.	590 lbs.	22.50
607	—Plain Bearing, for Miniature Golf Courses				11.00

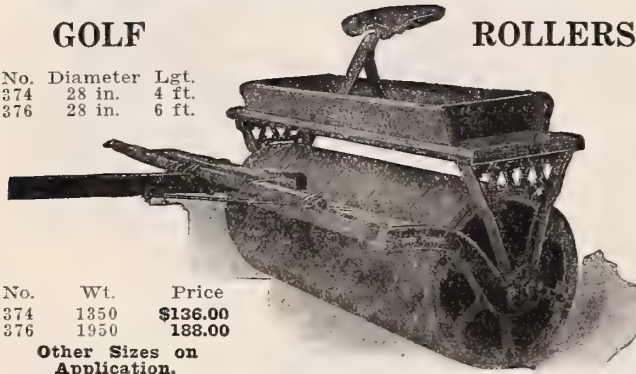
Filled with water to any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts, etc.

The axle is mounted on roller bearings, making the roller run very easily.

GOLF

ROLLERS

No.	Diameter	Lgt.
374	28 in.	4 ft.
376	28 in.	6 ft.



No.	Wt.	Price
374	1350	\$136.00
376	1950	188.00

Other Sizes on Application.

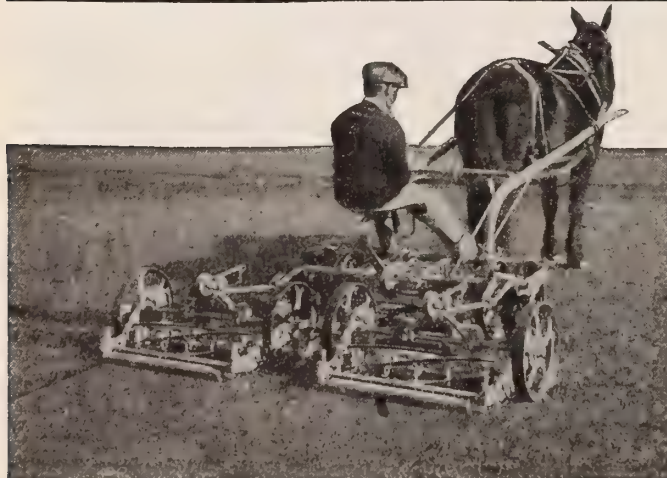
MOTO-MOWER

The Moto-Mower has all the desirable features of previous models. It offers efficient power Mowing Service at a moderate cost.

A twist of the wrist controls the power. The power from the engine is transmitted direct to the Cutting Reel, through Jack Shaft, chain and sprocket, the most efficient method of drive known.

It will operate on hills and terraces, and runs an average of eight hours on a gallon of gasoline.

The machine is shipped assembled ready to go to work. Has a fine 4 Cycle valve in the head Motor. All parts accurately machined and ground. Splash Oil System is used, has no complicated parts in carburetor.



CAST IRON HAND LAWN ROLLER

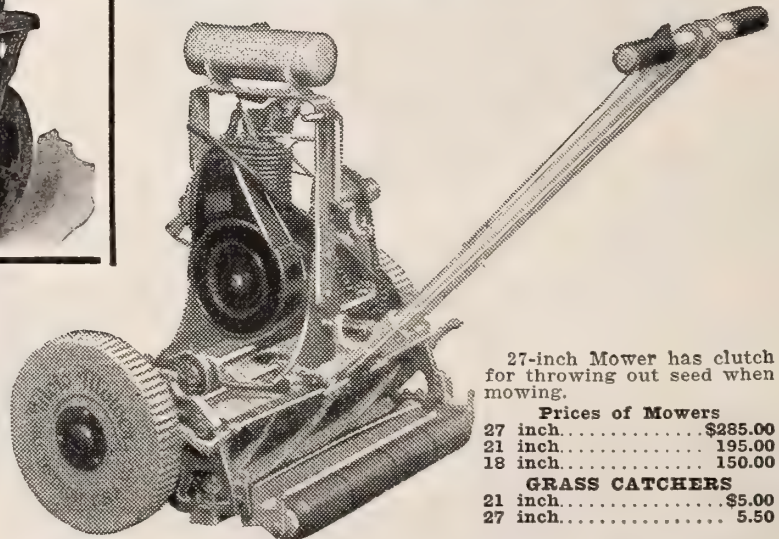
No.	No. Sec.	Width Face	Diam. Total	Length	Weight	Our Special Price
504	2	10 in.	20 in.	20 in.	250 lbs.	\$26.00
507	2	10 in.	20 in.	24 in.	300 lbs.	32.00
509	2	10 in.	24 in.	20 in.	400 lbs.	42.00

PUTTING GREENS ROLLER



In order to meet the demands from golf clubs for a substantial, smooth face, light roller for putting greens this roller has been designed. It has outer drums with edge and will turn around within its own radius with

each drum rolling without cutting the sod. The cast drums are ground perfectly smooth, and are preferable to the old rough wood type. Price, \$32.00.



27-inch Mower has clutch for throwing out seed when mowing.

Prices of Mowers

27 inch.....	\$285.00
21 inch.....	195.00
18 inch.....	150.00

GRASS CATCHERS

21 inch.....	\$5.00
27 inch.....	5.50

PENNSYLVANIA "NEW" FAIRWAY MOWER

Cylinders—7 inches in diameter, with accurate adjustment for even cutting. Have five crucible tool steel knives, oil-hardened and water tempered.

Bottom Knife—Raised edge, chrome steel—set screw adjustment.

Wheels—17 inches in diameter; tread, 2½ inches. Each fitted with two sets Timken Roller Bearings.

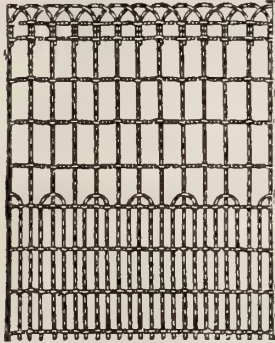
Bearings and Gears are all in dirt-proof, oil-retaining housings. The two intermediate gears are on roller bearings; the cutting cylinders run in the new and revolutionary Braun Self-aligning Ball Bearings. Three gears (on both sides) are cut from special blanks.

Alumite Lubrication throughout.

Maximum Speed, Minimum Power—With every moving part on roller or ball bearings (except the ground rollers, which are on hardened steel bearings), there is less strain on the tractor and more work done with no increase in power. While we do not advocate a greater speed than six miles an hour for ordinary mowing, the "New" Fairway can, in an emergency, be speeded up to 12 miles an hour without serious harm.

Fairway Trio Mower, horse drawn.....	\$400.00
Fairway Trio Mower, tractor drawn.....	375.00
Fairway 5-Unit Mower, tractor or 4-horse hitch....	625.00

Perfection Fabric



PAGE LAWN FENCE

Page Lawn Fence is designed especially to protect and beautify your property. It harmonizes with its surroundings and adds dignity and a feeling of privacy to your dwelling. Page Lawn Fence not only protects your property but also affords excellent protection for your children. Its construction is such that there is no foothold for children to climb over and it is dog, cat and chicken proof.

Lawn Fence is made of No. 9 heavy galvanized wire spacing between uprights at the bottom, being 1 1/2 inches, and at the top 2 1/2 inches; the cables are of heavily galvanized wire, spaced about six inches apart, except the two at top, which are spaced 2 1/2 inches apart, furnished regularly in rolls of 200 feet. Any length cut to order.

PRICE OF PERFECTION FENCING

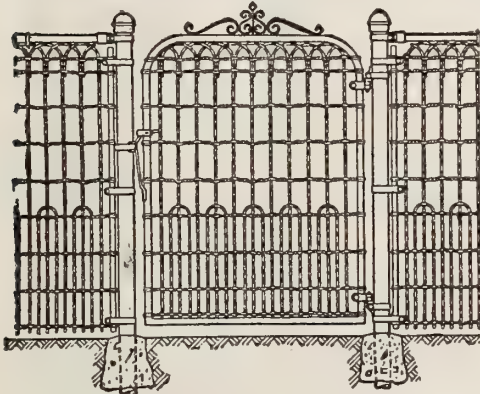
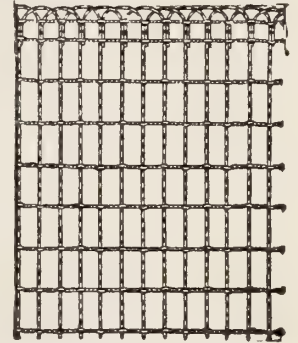
Height	List Per Ft.	Our Price
36 inches.....	22c.	14c.
42 inches.....	24c.	15c.
48 inches.....	28c.	17c.

PRICE OF ECONOMY FENCING

Height	List Per Ft.	Our Price
36 inches.....	16c.	10c.
42 inches.....	18c.	11c.
48 inches.....	20c.	12c.

In 200-foot Rolls, 10% from Retail Prices.

Economy Fabric



PERFECTION GATES

The frames are made of high-grade heavy steel tubing, and are regularly finished in galvanized frames. Filling of these gates is the regular Perfection Fence Fabric, described at top of page, and as shown by illustrations the gates have ornamental scroll tops. In giving the dimensions of gates, state first the height, and then the width. The width of these gates means the distance between the posts. The factory makes proper allowance for hinges and latch.

WALK GATES

Ht. In.	Width Ft.	List Price	Our Special Price
36	3	\$5.00	\$4.20
42	3	5.20	4.35
48	3	5.40	4.50
36	3 1/2	5.20	4.35
42	3 1/2	5.40	4.50
48	3 1/2	5.60	4.75
36	4	5.40	4.50
42	4	5.60	4.75
48	4	5.80	5.00

SINGLE DRIVE GATES

Ht. In.	Width Ft.	List Price	Our Special Price
36	8	\$12.00	\$10.00
42	8	12.20	10.25
48	8	12.40	10.35
36	10	14.00	11.65
42	10	14.20	11.75
48	10	14.40	12.00
36	12	16.00	13.35
42	12	16.20	13.50
48	12	16.40	13.75

DOUBLE DRIVE GATES

Ht. In.	Width Ft.	List Price	Our Special Price
36	8	\$11.60	\$9.65
42	8	11.80	9.85
48	8	12.00	10.00
36	10	13.60	11.35
42	10	13.80	11.50
48	10	14.00	11.65
36	12	15.60	13.00
42	12	15.80	13.20
48	12	16.00	13.35

PAGE POULTRY GATE

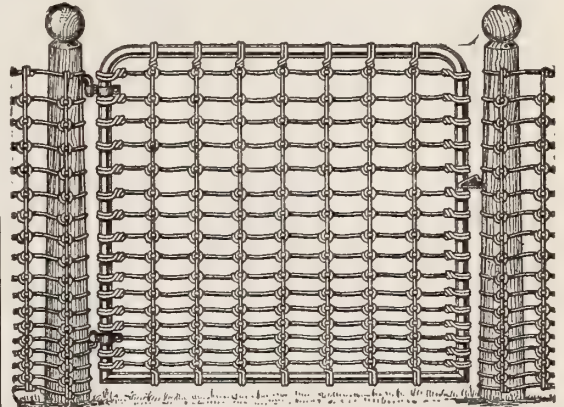
The gate for poultry enclosures where a small opening is desired. The wires are spaced close enough to hold back the smallest chicks. Frames are of 1 1/8-inch tubular steel with No. 12 1/2 gauge galvanized filler.

POULTRY GATES

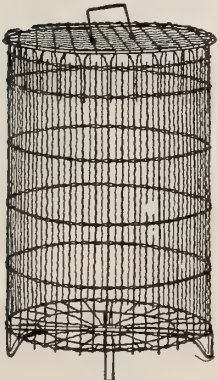
Height in Inches	List Price	Retail Price
48	\$4.10	\$3.50
58	4.50	3.75
72	7.05	6.00

Galvanized Gate Hinges and Latches

No.	Size	Price Each
H1 Walk Gate Hinge Eye.....	1 1/2 in. O. D.	\$.50
H3 Walk Gate Hinge Eye.....	1 3/8 in. O. D.	.45
H7 Post Hinge Hook.....	2 in. O. D.	.50
H9 Heavy Post Hinge Hook.....	2 1/2 in. O. D.	.75
C105 2 Way Latch.....	2 1/2 in. O. D.	.75
C102 2 Way Complete Latch.....	2 in. O. D.	.50
Pig Ear Latch.....	2 in. O. D.	.80
Pig Ear Latch.....	2 1/2 in. O. D.	.90
Spring Latch for Walk Gate.....		.60
Spring Latch for Drive Gate.....		.65

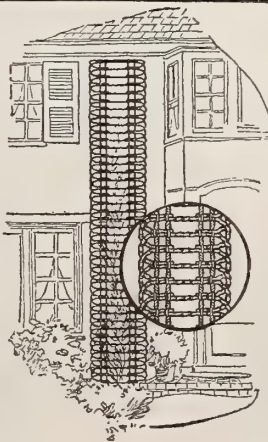


Trash Burner or Consumers



The best way to dispose of your waste paper and rubbish is to burn it in a **Consumer**. Avoids danger and helps to keep the yard and lawn clean from litter.

No. 1—19 in. dia. 30 in. high....	\$2.50
No. 2—17 in. dia. 24 in. high....	2.00



Trellis

This trellis carries the general style of Perfection Fencing. It is extremely strong, embracing beauty and adaptability. Cut in any length desired.

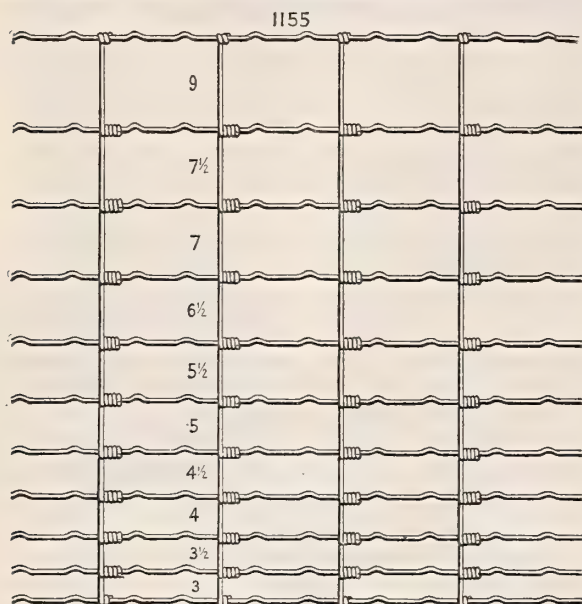
Width	List Price	Our Price
18 in.....	14c.	9c.
24 in.....	16c.	10c.



Perfection Flower-Bed Guard

18 inches and 12 inches above ground. Has 3 cables of two No. 13 wires. Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens.

18 inches above ground, List.....	13c.
Our Special Price.....	8c.
12 inches above ground, List.....	11c.
Our Special Price.....	7c.







PAGE GENERAL PURPOSE FENCE

The Name PAGE to Fence is What Sterling Means to Silver
The Page Steel and Wire Company steadily maintains a quality so high that its fence has always been a standard by which good fence is judged. As a result of this policy the first small building has grown into an immense plant covering many acres. Page Fence has been serving its owners honestly and faithfully for many years. To you, Page offers a long-time investment that will pay dividends in service and utility long after ordinary fence has passed into discard.

Style No.	Height in Inches	Approx. Weight Per Rod, Pounds	12-inch Stays, Retail Price, Per Rod	Approx. Weight Per Rod, Pounds	6-inch Stays, Retail Price per Rod
1155	55	12.2	\$.63	16.7	\$.88
1047	47	10.9	.56	14.8	.77
939	39	9.7	.50	13.1	.70
832	32	8.6	.44	11.4	.60
726	26	7.5	.39	9.8	.51

ACTUAL SIZE OF WIRES





Top Bar.....9		Intermediate Bars.....11	
Bottom Bar.....9		Stays .....11	

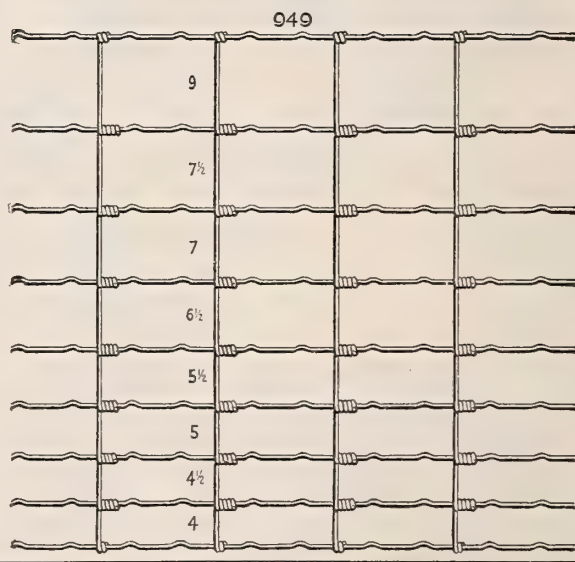
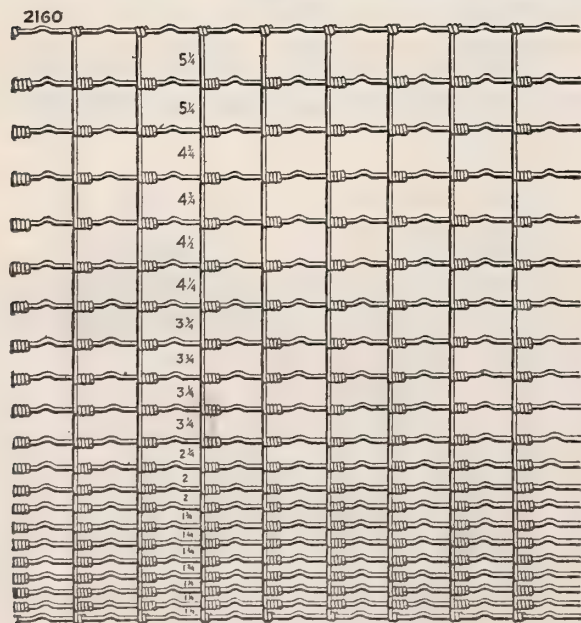
CATTLE FENCE

This is an ideal horse and cattle fence and is used largely for division fences. The stays are 12 inches apart, and we do not recommend its use for hogs. The top bar is No. 9 the bottom No. 9, the intermediate bars are No. 11 and the stays are No. 11 wire.

Style Number	Height in Inches	12-inch Stays. Approx. Weight per Rod, Pounds	Retail Price per Rod
949	49	10.3	\$.53
845	45	9.3	.48
635	35	7.2	.38

ACTUAL SIZE OF WIRES

Top Wire.....9		Intermediate Wires.....11	
Bottom Wire.....9		Stay Wires.....11	





PAGE POULTRY AND GARDEN FENCE

It is an ideal fence against poultry and small animals. The spacing is graduated from 1 1/4 inches at the bottom to 5 1/2 inches at the top, as shown by the illustration and the distance between the stays or uprights is 6 inches. We carry this fence in stock in the styles mentioned below. It is very extensively used as a protection for poultry yards, gardens and orchards. It meets the requirements; therefore it is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet.

Style No.	Distance Between Stays	Height, Inches	Approx. Weight per Rod	Retail Price per Rod
2371	6	73	11.4	\$.70
2160	6	58	10.3	.64
1949	6	48	9.2	.57
1635	6	35	7.6	.46

ACTUAL SIZE OF WIRES

Top Wire.....No. 11 Intermediate Wires.No. 14½
Bottom Wire.,No. 11  Stay Wires.....No. 14½ 

Galvanized Steel Fence Posts

**CHEAPER THAN WOOD AND MORE DURABLE—
GALVANIZED INSIDE AND OUT.**

These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made.

Nos.	Length in Feet	Approx. Weight in Lbs.	Special Prices, Per Post
14½ Line Post.....	5	7.4	\$.66
14½ Line Post.....	6	8.4	.72
14½ Line Post.....	6½	9.3	.75
14½ Line Post.....	7	10.	.82
14½ Line Post.....	8	11.4	.97
14½ Line Post.....	9	12.8	1.38
14½ Line Post.....	10	14.2	1.57
10 End Post.....	7	51.	3.85
10 End Post.....	8	59.	4.35
10 Corner Post....	7	75.	5.70
10 Corner Post....	8	86.	6.15
Junior End Post....	6		2.00
Junior End Post....	8		2.45
Junior Corner Post.	6		3.10
Junior Corner Post.	8		3.75
Ball Top for Line Posts.....			.23
Ball Tops for End and Corner Posts.....			.50
Driving Caps for Line Posts.....			.50



Sweet's Steel Fence Posts

This Year's Best Seller

A special high carbon steel post of extreme rigidity, for all types of fence construction. The design of these posts is a **flanged leg channel section** which assures maximum strength from an extraordinarily high section modulus. In addition to actual tests for strength to withstand the maximum bending strains of heavy weights and wind loads, these posts are further satisfying a need apparent to engineers, builders, manufacturers and property owners, for:

**Superior Strength Attractive Appearance
Maximum Durability Unequalled Economy**
These posts are heartily recommended for use with Field Fences of all types—Poultry, Garden, Arbor, Residences and Estates.

Sweet's Line Post with Ground Plate

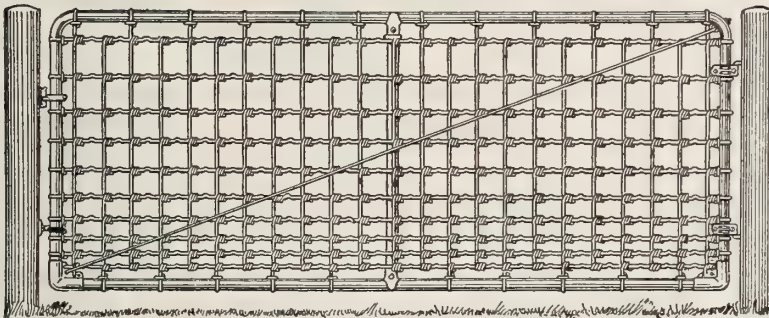
Length	Weight	Price
3 ft.	4.38 lbs.	\$.25
5 ft.	6.63 lbs.	.34
6 ft.	7.75 lbs.	.39
6½ ft.	8.31 lbs.	.43
7 ft.	9.13 lbs.	.47
7½ ft.	9.69 lbs.	.50
8 ft.	10.25 lbs.	.52
9 ft.	11.38 lbs.	.60
10 ft.	12.50 lbs.	.65

End Posts

Length	Weight	Price
6 ft.	40.50 lbs.	2.50
7 ft.	42.75 lbs.	2.65
8 ft.	45.00 lbs.	3.00
10 ft.	49.50 lbs.	3.50

Corner and Two-Way Brace Posts

Length	Weight	Price
6 ft.	67.50 lbs.	4.20
7 ft.	69.75 lbs.	4.50
8 ft.	72.00 lbs.	4.80
10 ft.	76.50 lbs.	5.50



General Purpose Farm Gates

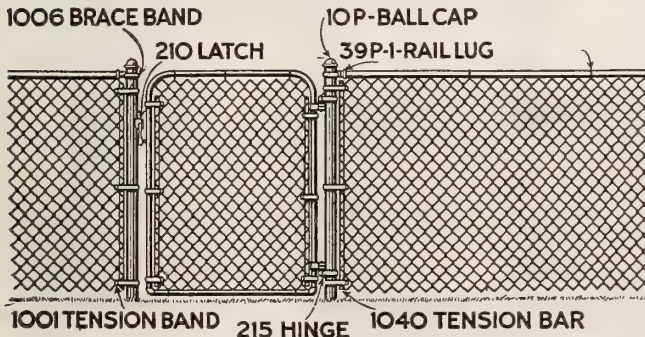
The frame is made from heavy 1¼ inch outside dimension tubing. The wire filling is Heavy Galvanized No. 9 Woven Wire. The frames are Galvanized, and electrically welded at the joints, thus insuring a gate that will not sag or twist out of alignment. In addition the gates are strengthened by internal braces.

The fabric is actually woven into the frame and not simply tied in with a lace wire.

Distance Between Posts

Height	10 Ft.	12 Ft.	14 Ft.	16 Ft.
48 inches.....	\$9.60	\$11.10	\$12.20	\$13.85
54 inches.....	10.00	11.50	13.60	14.25

PAGE RELIABLE FENCE FABRIC



The fabric is of 2-inch mesh No. 9 (W. & M. Gauge) wire, heavily galvanized. Each picket is interlocking, thus preventing any spreading of the wires. It is non-climable.

Height refers to height of fabric used.

Height	Fabric Only Retail Price
36 inches.....	\$.30 per ft.
42 inches.....	.35 per ft.
48 inches.....	.40 per ft.

BANNER POULTRY FENCE

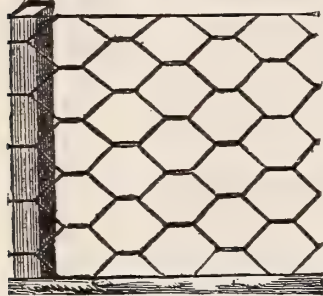
	22 BARS	48 INCHES
3⅞"		
3⅞"		
3⅞"	19 BARS	36 INCHES
3⅞"		
3⅞"		
3⅞"	16 BARS	24 INCHES
3⅞"		
1⅞"	13 BARS	18 INCHES
1⅞"		
1⅞"	10 BARS	12 INCHES
1⅞"		
1⅞"		

Banner Fence meets the demand for a closely woven fence heavier than the light poultry nettings. The spacing between the six line wires at bottom of fence is only 1½ inches and gradually increased to 3⅞ inches at top, so the essential feature of a satisfactory poultry fence—closeness of mesh—is well taken care of in this fencing. The upright wires or stays run continuously across the fence and lock firmly around the intersecting line wires in a loop knot, forming a smooth, solid joint without any sharp, rough edges. Top and bottom wires No. 15; all other wires No. 17 gauge, hard steel, thoroughly galvanized.

Style	Height	No. of Bars	Price per 10-rod Roll
1624	24 inches	16	List, \$7.10 Our Price, \$3.80
1936	36 inches	19	List, 8.80 Our Price, 4.50
2248	48 inches	22	List, 10.50 Our Price, 5.20
2560	60 inches	25	List, 12.30 Our Price, 6.10
2872	72 inches	28	List, 14.00 Our Price, 6.95

Diamond Mesh Poultry Netting

The wire we offer is No. 20, double twist, 2-inch mesh, thoroughly galvanized. Sold in bales of 150 running feet.



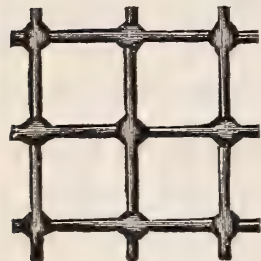
No.	In. Wide.	Sq. Feet.	List Retail	
			Price	Price
			Galv. After Weaving.	Per Bale.
20	12	150	\$2.14	\$1.20
20	18	225	3.08	1.75
20	24	300	3.92	2.20
20	36	450	5.35	2.95
20	48	600	7.13	4.00
20	60	750	8.91	4.95
20	72	900	10.69	5.70

Price 1½¢. per square foot in less than bale lots. Staples for fastening, 10c. per pound.

ONE INCH MESH

1-inch Mesh Galv. After Weaving.			List Price Retail Price	
No.	Inches wide.	Square feet.	Per Bale.	Per Bale.
20	12	150	\$4.95	\$2.75
20	18	225	7.12	4.00
20	24	300	9.08	5.05
20	36	450	12.38	6.90
20	48	600	16.50	9.20
20	60	750	20.63	11.50
20	72	900	24.75	13.75

Galvanized Steel Wire Cloth



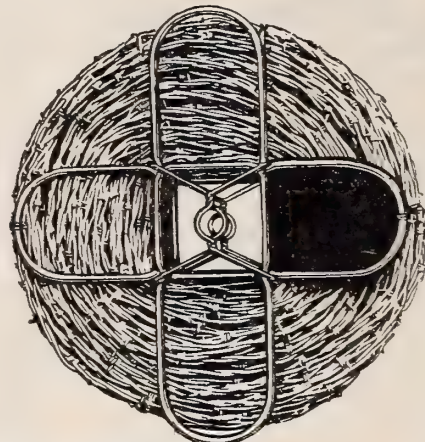
Made from heavy wire thoroughly galvanized after weaving. This insures long life, as every part of the wire is coated by the dipping process.

Used largely in corn cribs to make them mice and rat proof, also for sieves and fan screens and over windows for protection.

We carry it in stock in widths 2, 2½, 3 and 4 foot.

The word mesh means number of meshes to the inch (2x2, 2 to the inch; 4x4 mesh, 4 to the inch, etc. Full rolls contain 100 running feet.

	PRICE.	Full Rolls.	Less Than Full Rolls.
2x2 Mesh, per sq. ft.....		\$.04½	\$.05½
3x3 Mesh, per sq. ft.....		.04¾	.05¾
4x4 Mesh, per sq. ft.....		.05	.06



American Barbed Wire

All brands of American Barbed Wire are plainly stenciled with the brand and registered trade mark. Customers who want good quality should insist on getting these well known brands.

New Wire Reel Patented

Price on Application



Lott Stretcher

Clamp Bars made of reinforced with half-oval iron to keep wire from slipping.

Lott stretcher furnished complete except Lever. Use for this purpose an old piece of pipe or lever cut from wood. Price, \$10.00

WIRE STRETCHER

No. 1

Price, \$1.75



THE IMPROVED "NEVERSLIP" STRETCHER

The Neverslip Stretcher has no teeth to cut or injure wire. Simple and strong in construction. Made of strong, Malleable Iron and will last a lifetime. One man operates it, and both hands are left to drive staple. Price.....\$1.25.

"Cottage" Lawn and Garden Fence



Height, inches.	List Price, per rod.	Our Price, per rod.
24	\$2.00	\$1.20
36	3.00	1.80
48	4.00	2.40
60	5.00	3.00
72	6.00	3.60

Folding Clothes Dryer



This is the best folding dryer to be had. Takes up but little space in yard. Spruce arms and post, japanned castings. Made in two sizes.

Our Special Price

Economy Clothes Dryer.....	\$9.00
No. 2 Economy Clothes Dryer..	\$10.00

CLAY SUNSHINE FOLDING CLOTHES DRYER

Has tension adjuster, by merely raising arm one notch higher. Arms are easily raised like an umbrella on the steel center post. The ends of Drier Arms are Reinforced with steel bands. All parts are heavily galvanized, and varnished with a weather-proof varnish. High grade long fibre sea island cotton line is only used. Arm braces Angle iron. Price\$12.00

REMOVABLE STEEL CLOTHES-LINE POST

NO. 1



Complete with base, Our Special Price, \$2.75

SAFETY FIRST SPRUCE LADDERS

We carry a complete line of ladders for every purpose

**GRITCO
SUPERIOR**

**WITH AUTOMATIC HOOKS
LUMBER: (Spruce).**

The sides or rails are made from light, clear selected stock, bored mechanically correct for rounds and measure 1 $\frac{1}{2}$ x 2 $\frac{1}{4}$ inches finished, both top and bottom sections. All 18, 20 and 22 bottom sections have 1 $\frac{1}{2}$ x 3 inches.

RUNGS: (Hickory. Creosoted Ends).
Clear, second growth, straight grained HICKORY, smoothly finished to 1 $\frac{1}{2}$ inches in diameter, and 12 inches apart.

CASTINGS:

Top guides made from wrought forgings with roller guides. This allows top section to be extended freely.

AUTOMATIC HOOKS: (Put on all our Extension Ladders).

Are made from soft malleable iron, self-balancing, simple in construction and work automatically. All castings are galvanized.

With Spring Lock and Straight Sides

LENGTH OF SECTIONS

20-ft. Extension—Top Section, 10 ft.; Bottom Section, 10 ft.....	\$10.00
24-ft. Extension—Top Section, 12 ft.; Bottom Section, 12 ft.....	11.00
26-ft. Extension—Top Section, 12 ft.; Bottom Section, 14 ft.....	12.40
28-ft. Extension—Top Section, 14 ft.; Bottom Section 14 ft.....	13.20
30-ft. Extension—Top Section, 14 ft.; Bottom Section, 16 ft.....	14.00
32-ft. Extension—Top Section, 16 ft.; Bottom Section, 16 ft.....	14.80
36-ft. Extension—Top Section, 18 ft.; Bottom Section, 18 ft.....	18.00
40-ft. Extension—Top Section, 20 ft.; Bottom Section, 20 ft.....	20.00
42-ft. Extension—Top Section, 20 ft.; Bottom Section, 22 ft.....	23.00
44-ft. Extension—Top Section, 22 ft.; Bottom Section, 22 ft.....	25.00
48-ft. Extension—Three Section...	30.00

More people are injured by defective ladders than any other implement sold with the exception of automobiles.

Do not overload or use a ladder for any other purpose than which it was intended to be used.

Do not try to economize on buying cheap ladders as they are very dangerous. Buy the very best that can be had as your life is worth more than the price of several carloads.

Our ladders are equipped with the very latest improvements and manufactured from strictly first class material. We use modern machinery and employ skilled workmen.

LENGTH OF SECTIONS

20-ft. Extension—Top Section, 10 ft.; Bottom Section, 10 ft.....	\$8.40
22-ft. Extension—Top Section, 10 ft.; Bottom Section, 12 ft.....	9.20
24-ft. Extension—Top Section, 12 ft.; Bottom Section, 12 ft.....	10.00
26-ft. Extension—Top Section, 12 ft.; Bottom Section, 14 ft.....	10.80
28-ft. Extension—Top Section, 14 ft.; Bottom Section, 14 ft.....	11.60
30-ft. Extension—Top Section, 14 ft.; Bottom Section, 16 ft.....	12.40
32-ft. Extension—Top Section, 16 ft.; Bottom Section, 16 ft.....	13.20
36-ft. Extension—Top Section, 18 ft.; Bottom Section, 18 ft.....	16.40
40-ft. Extension—Top Section, 20 ft.; Bottom Section, 20 ft.....	18.20
42-ft. Extension—Top Section, 20 ft.; Bottom Section, 22 ft.....	22.00
44-ft. Extension—Top Section, 22 ft.; Bottom Section, 22 ft.....	23.00

SCAFFOLD



Our Painters' Scaffolds are made from seasoned and selected stock.

Slats are securely fastened on the top of the rungs making a smooth platform. Our scaffolds are light in weight, but very strong and durable.

16-18, 20 and 22 ft., without floor, per ft.....\$.90. With floor.....\$1.00

EXTENSION PLANKS



These adjustable Planks are used by Painters and Decorators and are now a part of their equipment. We can furnish Extension Planks in three sections in 8 and 10-foot lengths.

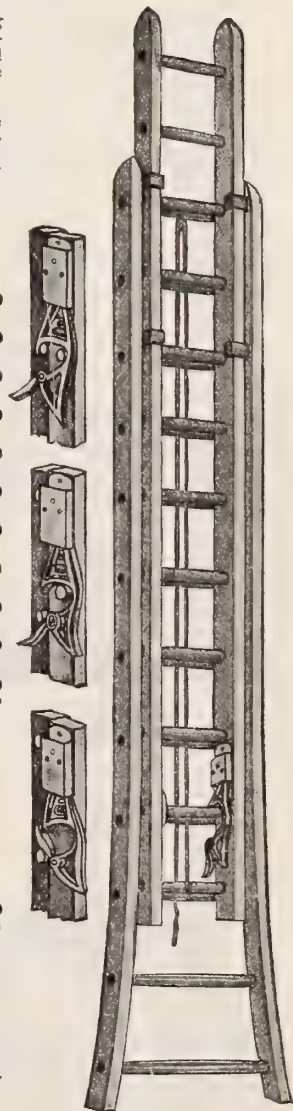
6-foot, extends to 10 $\frac{1}{2}$ feet.....	\$5.40
8-foot, extends to 13 $\frac{1}{2}$ feet.....	6.80
10-foot, extends to 17 $\frac{1}{2}$ feet.....	8.00

GRITCO SINGLE LADDERS

10, 12, 14, 16 Foot.....	\$.28 per foot
18, 20 Foot.....	.32 per foot
22 Foot .....	.36 per foot



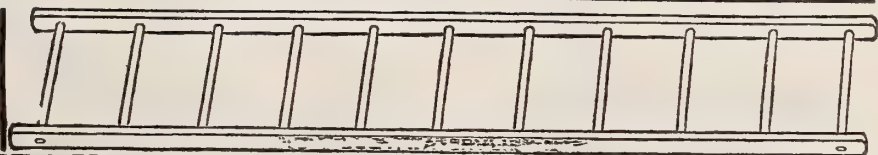
**GRITCO
STANDARD**



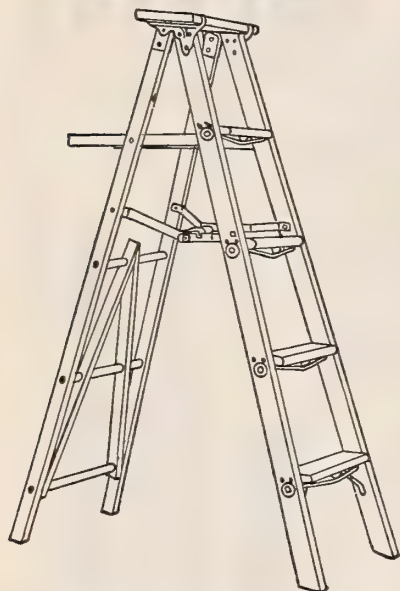
MASON OR BRICKLAYERS' LADDER

Made from clear, selected stock, carefully bored. Rounds made from Hickory properly spaced for easy climbing.

16, 18, 20 and 22 Foot, per foot.....\$.50



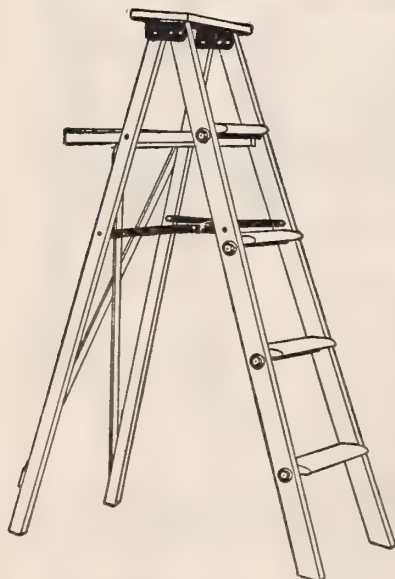
GRITCO TRUSS



The GRITCO TRUSS STEP with 1/4-in. rod and truss block under each step with malleable iron washers, wood handle, four arm steel lock, malleable ears, wide cap and steps, dowel in the back legs opposite each step, solid risers made from Genuine Spruce.

4 ft...\$2.80	8 ft.....\$5.50
5 ft... 3.40	10 ft..... 6.80
6 ft... 4.10	12 ft. extra strong 9.00
7 ft... 4.80	16 ft. extra str'g. 14.30

BALTIMORE ACME



BALTIMORE STEP LADDER

Full Rodded, Steel Lock with Handle.

3 ft.....\$.90	7 ft.....\$2.10
4 ft..... 1.20	8 ft..... 2.40
5 ft..... 1.50	10 ft..... 3.20
6 ft..... 1.80	

GRITCO SECURITY



GRITCO STEP is standard built, 1/4-inch rod under every step, non-slip washers, wood handle, four arm lock, galvanized double ear, dowels in the back opposite each step.

4 ft...\$2.32	8 ft.....\$4.70
5 ft... 2.90	10 ft..... 5.80
6 ft... 3.50	12 ft. extra strong 8.00
7 ft... 4.10	14 ft. extra strong 9.20

GRITCO PAINTERS' TRESTLES



STRONG AND LIGHT

feet.	Pair
2 6-ft.....	\$9.28
2 8-ft.....	12.50
2 10-ft.....	15.50
2 12-ft.....	21.00

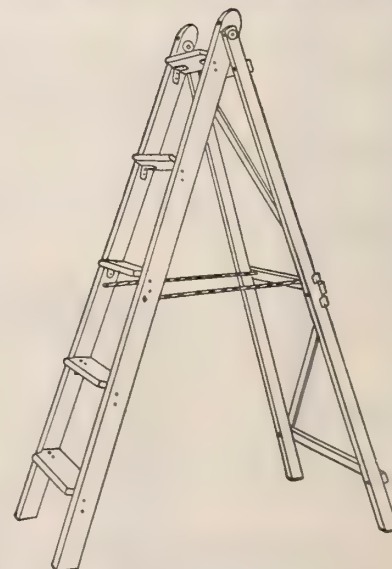
GRITCO ELECTRIC



The GRITCO ELECTRIC is our very latest design and is intended for heavy work. It is made from selected SPRUCE, has wide steps, steel lock, malleable ears, truss block and is full rodged. Has reinforced back legs with 1/4-inch bolts and 1 1/8-inch HICKORY Rungs, so that ladder can be used on either side.

4 ft.....\$4.00	12 ft.....\$12.60
5 ft..... 5.00	14 ft..... 14.70
6 ft..... 6.00	16 ft..... 17.00
7 ft..... 7.00	18 ft..... 21.00
8 ft..... 8.00	20 ft..... 24.00
10 ft.....10.00	

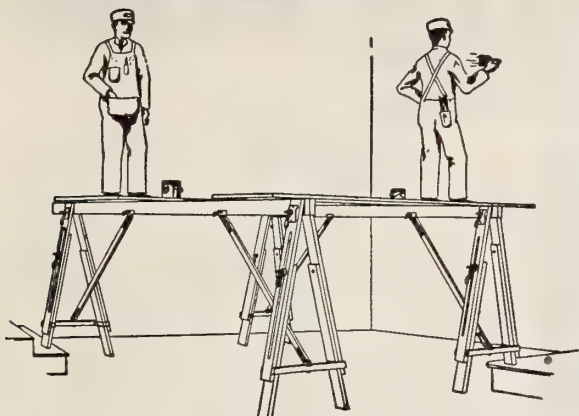
GRITCO DECORATORS



This ladder is for paper hangers, painters and interior decorators. Made of Spruce material, approved specifications.

4 ft.....\$2.40	10 ft.....\$6.00
5 ft..... 3.00	12 ft..... 8.00
6 ft..... 3.60	14 ft..... 9.40
7 ft..... 4.20	16 ft..... 11.20
8 ft..... 4.80	

GRITCO ADJUSTABLE JACKS



Above illustration shows four Adjustable Scaffold Jacks ready for use.

It requires Four Jacks to properly scaffold a room, on which Planks can be laid, thus giving a safe platform to work on.

These Jacks are made in various sizes from 3½ ft. to 20 ft. Each size can be quickly adjusted to various heights. These Jacks are so constructed that they can be assembled ready for a job in five minutes and when the work is finished, they can be folded up thus requiring very little space and take a very low freight rate in shipping.

The legs of the Jacks are made out of 1½x4 and 2x4 Clear Straight Grain Spruce. The Hardware consists of malleables, steel stampings, and heavy bolts and rivets to stand real hard usage. Jacks that are 8 ft. and longer are made with reinforced braces and supports.

ADJUSTABLE SCAFFOLD JACKS		
No.	Length of Jacks	Price Ea.
3	4 ft. extend to 6 ft.	\$6.20
3½	5 ft. extend to 8 ft.	7.00
4	6 ft. extend to 9½ ft.	8.00
5	8 ft. extend to 13 ft.	10.00
6	10 ft. extend to 16 ft.	15.60
7	12 ft. extend to 20 ft.	19.00
Adjustable Scaffold Jack Iron Brackets, set of four		4.00

GRITCO SECTIONAL LADDERS

Made in 6-ft. sections, each end protected with iron plates, and equipped with large bolts with thumb nuts, making them safe and durable.

Hickory Rungs.
Sections 6 ft. 5 in.
\$3.50

WINDOW BRACKET

Made in Two Sizes
No. 1—4 foot, 4-inches\$10.00
No. 2—6 ft... 11.00

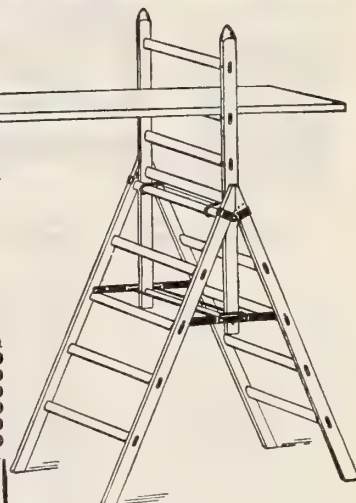


GRITCO EXTENSION TRESTLES

Extension Trestles manufactured from selected stock, made in lengths from 6 to 16 feet. This is exclusive of the extension part. The extension part of each trestle is the same length as the trestle. These ladders are very convenient for interior work. Hickory Bars or Rungs.

EXTENSION TRESTLES

	Each
6 ft. extending to 10 ft.	\$11.00
8 ft. extending to 14 ft.	14.00
10 ft. extending to 18 ft.	16.50
12 ft. extending to 22 ft.	19.00
14 ft. extending to 24 ft.	25.00
16 ft. extending to 26 ft.	32.00



Gritco Window Cleaners

A very convenient ladder for window cleaning purposes or where a ladder has to be carried from one place to another.

It is made in sections, which makes it convenient to handle.

All sections are fitted into each other.

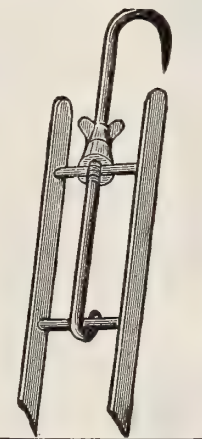
These ladders are made in 6-foot lengths.

\$2.50

This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached.

Price\$1.50

ROOF HOOK

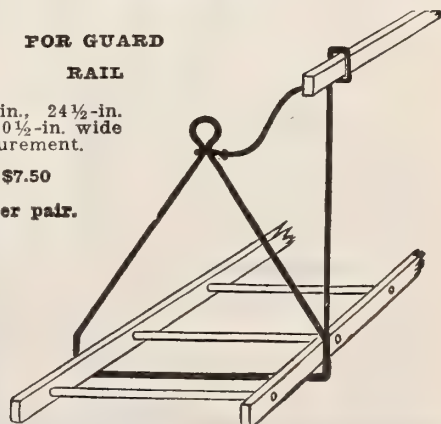


TRIANGLE

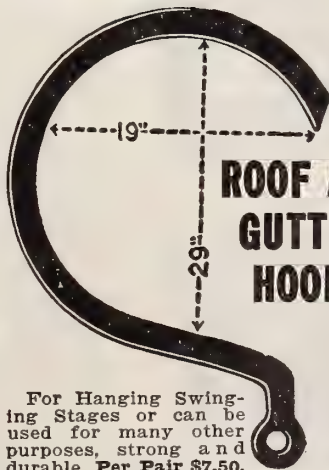
FOR GUARD
RAIL

20½-in., 24½-in.
and 30½-in. wide
measurement.

\$7.50
per pair.



ROOF AND GUTTER HOOKS



For Hanging Swinging Stages or can be used for many other purposes, strong and durable. Per Pair \$7.50.



Certain-teed PAINT

HOUSE PAINTS

	Gals.	½ Gals.	Qts.	Pts.
400 Inside Gloss White...	\$3.40	\$1.80	\$.95	\$.54
401 Silver Gray.....	3.20	1.70	.90	.52
402 Gray Tint.....	3.20	1.70	.90	.52
404 Steel Gray.....	3.20	1.70	.90	.52
406 Warm Gray.....	3.20	1.70	.90	.52
408 Light Slate.....	3.20	1.70	.90	.52
409 Dark Slate.....	3.20	1.70	.90	.52
412 Light Blue.....	3.20	1.70	.90	.52
413 Misty Green.....	3.20	1.70	.90	.52
414 Blue.....	3.20	1.70	.90	.52
415 Royal Blue.....	3.20	1.70	.90	.52
416 Cream.....	3.20	1.70	.90	.52
418 Colonial Ivory.....	3.20	1.70	.90	.52
419 Primrose Yellow...	3.20	1.70	.90	.52
424 Warm Buff.....	3.20	1.70	.90	.52
425 Rich Buff.....	3.20	1.70	.90	.52
426 Black.....	3.20	1.70	.90	.52
431 Crimson Red.....	3.20	1.70	.90	.52
434 Golden Brown.....	3.20	1.70	.90	.52
435 Bungalow Brown...	3.20	1.70	.90	.52
437 Brown.....	3.20	1.70	.90	.52
438 Antique Brown.....	3.20	1.70	.90	.52
439 Maroon.....	3.20	1.70	.90	.52
440 Apple Green.....	3.20	1.70	.90	.52
441 Nile Green.....	3.20	1.70	.90	.52
443 Window Blind Green	3.20	1.70	.90	.52
444 Olive Green.....	3.20	1.70	.90	.52
446 Dark Bronze Green..	3.20	1.70	.90	.52
448 Outside White.....	3.40	1.80	.95	.54
449 Inside White.....	3.40	1.80	.95	.54

DECORATIVE ENAMELS

	Gals.	½ Gals.	Qts.	Pts.	Pts.
25 Snow White— Gloss.....	\$5.60	\$2.90	\$1.50	\$.81	\$.47
25A Snow White— Egg Shell.....	5.60	2.90	1.50	.81	.47
27 Ivory—Gloss.....	5.60	2.90	1.50	.81	.47
28 Gray—Gloss.....	5.60	2.90	1.50	.81	.47
29 Cream—Gloss.....	5.60	2.90	1.50	.81	.47

ENAMEL FIRST COATER

Made in white only. Covering capacity about 400 to 500 sq. ft. per gallon, one coat.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
24 First Coater...	\$3.90	\$2.05	\$1.10	\$.60	\$.35

INTERIOR ENAMEL

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
600 Gloss White...	\$4.00	\$2.10	\$1.10	\$.60	\$.35
601 Flat White...	4.00	2.10	1.10	.60	.35
602 Gloss Black...	4.00	2.10	1.10	.60	.35
604 Light Ivory...	4.00	2.10	1.10	.60	.35
605 Pink.....	4.00	2.10	1.10	.60	.35
606 Puritan Gray...	4.00	2.10	1.10	.60	.35
607 Blue.....	4.00	2.10	1.10	.60	.35
608 Light Blue...	4.00	2.10	1.10	.60	.35
609 Cream.....	4.00	2.10	1.10	.60	.35
610 Green Tint...	4.00	2.10	1.10	.60	.35
612 Light Gray...	4.00	2.10	1.10	.60	.35

STAIN—Shingle

	5 Gal. Cans	1 Gal. Cans
1 Bungalow Brown.....	\$1.30	\$1.35
2 Weathered Brown.....	1.30	1.35
3 Red.....	1.30	1.35
4 Moss Green.....	1.40	1.45
5 Sylvan Green.....	1.55	1.60
6 Silver Gray.....	1.60	1.65
8 White.....	1.55	1.60
9 Light Green.....	1.40	1.45

BARN, BRIDGE and ROOF PAINT

For outdoor purposes only.

Price Per Gallon

	5 Gal. Cans	1 Gal. Cans
460 Slate.....	\$2.35	\$2.40
461 Red.....	1.30	1.35
462 Green.....	1.70	1.75
466 Bright Red.....	1.80	1.85



MOTOR CAR ENAMEL

Highest grade products for re-finishing automobiles. Made in all the most popular shades. Easily applied and give a beautiful, hard, lustrous finish. Will dry overnight under ordinary conditions. One quart sufficient for the average car.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
962 Light Red...	\$4.40	\$2.30	\$1.20	\$.65	\$.38
963 Dark Red...	4.40	2.30	1.20	.65	.38
964 Blue.....	4.35	2.27	1.18	.64	.38
965 Gray.....	4.40	2.30	1.20	.65	.38
968 Dark Green...	4.10	2.15	1.15	.61	.36
970 Black.....	4.00	2.10	1.10	.60	.35
972 Flat Black Primer.....	4.00	2.10	1.10	.60	.35
973 Black Fender Enamel.....	4.00	2.10	1.10	.60	.35
905 Motor Car Finishing Var- nish (Clear)...	3.15	1.65	.88	.50	.31
714 Auto Top & Seat Dressing (Black) ..			.45	.30	

ALUMINUM BRONZE FINISH

Packed in two compartment containers, the liquid in one compartment and the powder in the other.

	Pts.	½ Pts.	¼ Pts.
710 Aluminum.....	\$.86	\$.48	\$.30

GOLD BRONZE FINISH

Packed in two compartment containers, the liquid in one compartment and the powder in the other.

	Pts.	½ Pts.	¼ Pts.
763 Gold.....	\$.86	\$.48	\$.30

STAIN—Varnish

Covering capacity about 500 to 600 sq. ft. per gallon, one coat. Dries dust-free in from 4 to 5 hours and hard overnight.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
30 Ground Color.....	\$2.60	\$1.40	\$.76	\$.43	\$.27
31 Mahogany ..	3.60	1.90	1.00	.55	.32
32 Light Oak...	3.60	1.90	1.00	.55	.32
33 Dark Oak...	3.60	1.90	1.00	.55	.32
34 Walnut.....	3.60	1.90	1.00	.55	.32
35 Cherry Red...	3.60	1.90	1.00	.55	.32
36 Golden Oak...	3.60	1.90	1.00	.55	.32

FLAT WALL PAINT

Covering capacity, one coat, about 700 sq. ft. per gallon on smooth plaster, and about 500 to 600 sq. ft. per gallon on rough plaster.

No.	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
470 Pearl Gray...	\$2.45	\$1.35	\$.70	\$.40	\$.25
475 Autumn Green.....	2.45	1.35	.70	.40	.25
476 Royal Tan...	2.45	1.35	.70	.40	.25
477 Harvest Brown.....	2.45	1.35	.70	.40	.25
478 French Gray...	2.45	1.35	.70	.40	.25
479 Old Rose Tint	2.45	1.35	.70	.40	.25
481 Pea Green...	2.45	1.35	.70	.40	.25
485 Pale Green...	2.45	1.35	.70	.40	.25
486 Ivory Tint...	2.40	1.35	.70	.40	.25
488 Buff Stone...	2.40	1.35	.70	.40	.25
489 Cream.....	2.40	1.35	.70	.40	.25
494 Pink Tint...	2.40	1.35	.70	.40	.25
495 Light Buff...	2.40	1.35	.70	.40	.25

FLOOR, PORCH AND DECK ENAMEL

Covering capacity about 250 to 300 square feet per gallon, two coats. Dries overnight with an enamel-like finish.

	Gals.	½ Gals.	Qts.	Pts.
575 Light Gray...	\$3.20	\$1.70	\$.90	\$.52
576 Silver Gray...	3.20	1.70	.90	.52
577 Stone Gray...	3.20	1.70	.90	.52
578 French Gray...	3.20	1.70	.90	.52
579 Medium Lead...	3.20	1.70	.90	.52
580 French Yellow...	3.20	1.70	.90	.52
581 Dark Oak.....	3.20	1.70	.90	.52
582 Brown.....	3.20	1.70	.90	.52
583 Dark Mahogany...	3.20	1.70	.90	.52
584 Red.....	3.20	1.70	.90	.52
585 Light Oak.....	3.20	1.70	.90	.52

BRONZING LIQUID

A vehicle for use in connection with gold and aluminum powders.

	Gals.	Qts.	Pts.
913 Bronzing Liquid....	\$2.35	\$.68	\$.40

KALSOMINE

5 Pound Packages \$.50.

300 White	315 Blue Green....
301 Ivory	319 Light Green....
302 Rich Cream....	321 Deep Green....
303 Salmon	322 Light Gray....
306 Fawn	323 Stone
307 Light Yellow..	324 Lavender
308 Buff	325 Deep Yellow...
309 Deep Pink....	327 Pea Green....
310 Blue	328 Light Pink....
312 Gray Green...	

DRYER—JAPAN (Master Painters')

A strong, pale dryer for mixing paints, colors and linseed oil. Will not curdle.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
924 Master Painters Japan Dryer	\$1.80	\$1.00	\$.55	\$.34	\$.22	

SHELLAC

Pure Shellac. Cut in alcohol.

	Gals.	1/2	Gals.	Qts.	Pts.
931 Orange	\$2.95	\$1.60	\$.78	\$.47	
932 White	3.25	1.70	.90	.51	

SHELLAC SUBSTITUTE

Will serve every purpose where shellac has heretofore been used. Dries dust-free in about one hour and hard enough overnight to sand-paper.

	Gals.	1/2	Gals.	Qts.	Pts.	1/2	Pts.
930 Shellac Substitute	\$2.35	\$1.30	\$.68	\$.40	\$.25		

PAINT AND VARNISH REMOVER

936 Paint and Varnish Remover.	\$2.35	\$1.30	\$.68	\$.40	\$.25
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WAGON IMPLEMENT AND CARRIAGE PAINT

	Gals.	1/2	Gals.	Qts.	Pts.
No. 50 Black	\$3.40	\$1.80	\$.95	\$.55	
No. 51 Yellow	3.40	1.80	.95	.55	
No. 52 Light Green...	3.40	1.80	.95	.55	
No. 53 Wagon Red...	3.40	1.80	.95	.55	
No. 54 Dark Green...	3.40	1.80	.95	.55	
No. 55 Light Red...	3.40	1.80	.95	.55	



CERTAIN-TEED Asphalt Roof Coating

1 Gallon Cans.....	\$.60
5 Gallon Cans.....	2.35
50 Gallon Barrels.....	18.50

CERTAIN-TEED Asbestos Roof Coating

1 Gallon Cans.....	\$.61
5 Gallon Cans.....	2.40
50 Gallon Barrels.....	19.00

Certain-teed Plastic Cement

Leaks in new or old roofs of wood, metal, slate, tile or prepared roofing may be repaired quickly, easily and permanently with **Certain-teed Plastic Cement**. It is excellent also for flashing around chimneys, metal cornices and skylights; for relining old gutters and metal valleys; and for use at all other points where there are leaks, holes, breaks, or cracks caused by contraction or expansion, or where the material has worn out or broken away.

1 lb. Packages.....	\$.15
5 lb. Packages.....	.45
10 lb. Packages.....	.80
25 lb. Packages.....	1.85
50 lb. Packages.....	3.00
275 lb. Packages.....	11.40
450 lb. Packages.....	20.25

VARNISHES

Covering capacity of all varnishes from 600 to 700 sq. ft. per gallon, one coat.

UNIVERSAL VARNISH

Unexcelled for all general interior and exterior purposes. This varnish is a very superior product and gives satisfaction in all its many uses. It is pale in color, highly lustrous, waterproof and weather-resisting, very tough and elastic. Can be rubbed and polished if desired. Will dry dust-free in from 4 to 6 hours and hard overnight.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
900 Universal Varnish	\$4.00	\$2.10	\$1.10	\$.60	\$.35	

FLOOR VARNISH

Dries dust-free in 3 hours, and dry enough overnight to be walked upon.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
911 Floor Varnish	\$3.35	\$1.80	\$.95	\$.52	\$.31	

INTERIOR SPAR VARNISH

Dries dust-free in about 4 hours, and hard in 18 to 20 hours, rubbed in about 72 hours.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
916 Interior Spar.	\$3.35	\$1.80	\$.95	\$.52	\$.31	

LINOLEUM VARNISH

Dries dust-free in about 3 to 5 hours and hard in 12 to 18 hours.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
914 Linoleum Varnish	\$2.60	\$1.40	\$.75	\$.43	\$.27	

MOTOR CAR FINISHING VARNISH—Clear

Dries dust-free in from four to six hours and hard over night.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
905 Motor Car Finishing Varnish	\$3.15	\$1.70	\$.90	\$.50	\$.31	

OUTSIDE SPAR VARNISH

Will dry dust-free in from 4 to 6 hours and hard over night.

	1/2	Gals.	Gals.	Qts.	Pts.	Pts.
910 Outside Spar.	\$4.00	\$2.10	\$1.10	\$.60	\$.35	

FLOOR PAINT—Cement Floors

Covering capacity about 500 square feet per gallon, one coat.

	Gals.	1/2	Gals.	Qts.
510 Light Gray.....	\$3.00	\$1.60	\$.85	
512 Torpedo Gray.....	3.00	1.60	.85	

VARNISH BRUSHES

1 in. Harmony Varnish	\$.15
1 1/2 in. " " .....	.25
2 in. " " .....	.30
2 in. Loyal " .....	.35
2 1/2 in. " " .....	.45
3 in. " " .....	.65
No. 1 Stag Varnish .....	.30
No. 2 " " .....	.40
No. 3 " " .....	.55
No. 4 " " .....	.70
No. 5 " " .....	.90
No. 2 Sash .....	.15
No. 4 " .....	.20
No. 6 " .....	.30
No. 10 " .....	.50

WALL BRUSHES

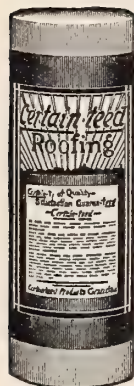
3 in. Ching Wan.....	\$.60
3 1/2 in. " " .....	.85
4 in. " "	1.10
4 in. O. K. Diamond Wall.....	2.25
4 in. Diamond Wall.....	2.00
No. 10/0 Pound Brush.....	2.10

Paint Brushes



Certain-teed Roofing

CERTAIN-TEED ROOFING



When you want a smooth surfaced Roofing for your House, Barn, Garage, Factory, Warehouse, Sky-scraper, Church, Apartment Building, or Farm Building, get

CERTAIN-TEED

—guaranteed 5, 10 or 15 years for No. 1, 2 or 3 respectively—backed by the responsibility of the World's greatest and biggest Roofing and Building Mills. The **Certain-teed** label on this Roofing stands for a definite guaranteed service—a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed when you can buy **Certain-teed** for just a little more money and get much longer service on your Roof. In the long run it's less expensive to buy **Certain-teed**.

No. 1, 108 square feet.....	\$1.25
No. 2, 108 square feet.....	1.60
No. 3, 108 square feet.....	2.00
No. 4, 108 square feet.....	2.40

GUARD ROOFING

GUARD (Special Quality)

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended.

No. 1—Light, about 35 lbs., per square....	\$1.10
No. 2—Medium, about 45 lbs., per square..	1.40
No. 3—Heavy, about 55 lbs., per square....	1.75

CORPORAL (Competition Quality)

Not a quality product. Made to meet price competition. Should be sold only where price is the principal consideration.

No. 1—Light, about 35 lbs., per square....	\$1.00
No. 2—Medium, about 45 lbs., per square..	1.25
No. 3—Heavy, about 55 lbs., per square....	1.50

Slatesurfaced Roll Roofing

CERTAIN-TEED EXTRA QUALITY

BLUE-BLACK, RED, OR GREEN

Weight, 90 lbs., Guaranteed 10 Years, per square.....\$2.25

Major Regular Quality

BLUE-BLACK, RED, OR GREEN

Weight, 80 lbs., Guaranteed 8 Years, per square.....\$2.00

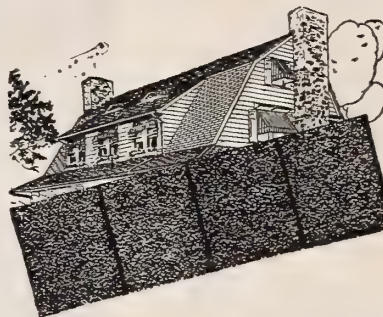
SHINGLES SLATE SURFACED

CERTAIN-TEED (Extra Quality)
Individual—Blue-Black, Red or Green.

Marked for spacing and nailing.
Weight about 237 lbs. Size 10x12½ inches. Put up four packages per square.
Guaranteed 10 Years, per square.....\$5.67

Certain-teed 4-Width Shingle

Blue-Black, Red or Green.



These shingles, when properly laid, offer weather protection in all climates. They are unaffected by atmospheric changes or by heavy rain or snow. Extreme heat or cold will not materially cause them to expand or contract. As an insulator they keep the house cooler in summer and warmer in winter.

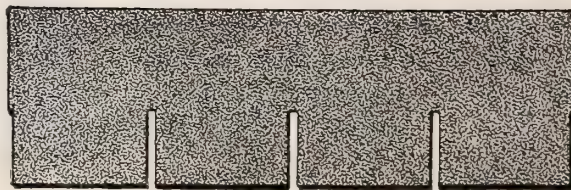
Marked exactly 4 inches from the butt for spacing.

Weight about 196 lbs. Size 10x36 inches. Put up two packages per square.

Guaranteed 10 years, per square.....\$6.00

CERTAIN-TEED STRIP SHINGLES

SLATE SURFACED



RED, BLUE BLACK AND GREEN

These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualities of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

Four shingles laid at a time—no spacing—no chalk line—one-half less nails—one-half less nail holes—four-fifths less cracks—no painting—no repairs.

CERTAINTEED STRIP SHINGLES are water-proofed, with pure refined asphalt. The wearing surface is natural chipped slate in handsome blue-black red and green colors. The colors are absolutely permanent.

Price, per square.....\$6.25

Certain-teed Hexagonal Shingles



BEAUTY AND PERMANENCE FOR YOUR ROOF

The **Certain-teed Hexagonal Slab Shingle** is a shingle of beauty and permanence. It is made of highest grade, long-fibered felt, heavily saturated with asphalt, and surfaced with a rugged coat of natural colored crushed slate. This surface cannot fade but will always add the same pleasing touch of color to your home.

Price, Blue-Black, Red or Green.....\$5.00
Color-Blend 5.50

Tarred Felt

No. 15—
Rolls 432
square feet.
65 lbs.
\$2.65



Slater's Felt

500 sq. ft. rolls, 30 lbs. \$1.10

Insulating Paper

500 sq. ft. rolls, 35 lbs. \$2.20

Rosin Sized Sheathing Paper

In Rolls of 500 Square Feet Each.

20-lb. Sheathing Paper, per roll of 500 square feet. \$.65
30-lb. Sheathing Paper, per roll of 500 square feet.95
40-lb. Sheathing Paper, per roll of 500 square feet. 1.30

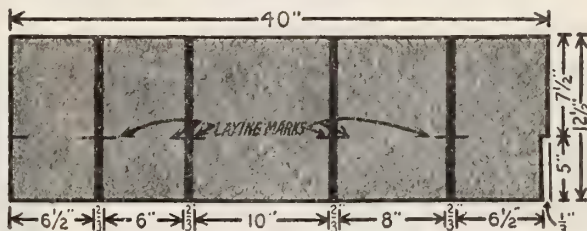
Special Prices in 10-roll lots; also by the ton.

Galvanized Steel Corrugated Roofing



1½ and 2½-inch corrugations, standard 29 gauge open
hearth steel thoroughly galvanized. Made in sheets 26 inches
wide; 6, 7, 8, 9 and 10 feet long. 12-foot sheets 25c. a square
extra. Galvanized Ridge Roll, both in corrugated and plain.
No. 29 Gauge. Per Square. \$5.25
Ridge Roll, Plain, Per Foot.10
Ridge Roll, Corrugated, per foot.12

Certain-teed Speedlay Shingles



Certain-teed Speedlay Shingles are the very latest in roofing
materials—they satisfy every demand of modern roofing, and
they are way ahead of any other shingle on the market.
Colors—rich in delightful assortments of pleasingly irregular
design, adaptable to the taste of any artist, any architect.
Self-spacing, with fewer nails used, moderately priced—economy
and beauty, combined with speed of laying, truly make
this the outstanding shingle of the day.

The Speedlay Shingle has particular appeal with its beautiful
colors and distinctive color combinations, perfected by a
staff of artists, expert in modern architectural requirements,
acceptable to the most discriminating tastes.

12½x40, Weight 200 pounds to square

Red Cast, per square. \$7.00
Green Cast, per square. 7.00

Galvanized Roofing Nails

With extra large heads, per pound. \$.10

Roofing Caps

Per Pound. \$.12

Lead Washers

Per Pound. \$.30

Cleveland Safety Ladder Jack



Is absolutely the strongest
and best made. Attaching these
Jacks on the standard of the
ladder instead of the rungs,
gives it much greater strength.
It can be raised or lowered to
any desired height or angle, or
reversed to either the outside
or under side of the ladder in
a minute's time without removing
the plank or scaffolding
from the Jack. They are self-
locking, and can be folded into
a small compass for convenient
carrying.
Price per pair. \$5.00

CHAMPION SPARK PLUGS—"C" TYPE

Standard For Ford Cars—Ford Trucks—Fordson Tractors

DEPENDABLE FOR EVERY ENGINE

Champion is outselling because it is the better spark plug—better because of its wonderful
double-ribbed sillimanite core. This core is the finest insulator ever devised. It is exclusively
Champion's, because Champion controls the only known commercial supply of sillimanite.

It is far superior to ordinary porcelain and is practically immune to breakage. Sillimanite
resists shocks so well that it makes possible the semi-petticoat tip of Champion cores. This
tip becomes so hot in service that it remains free from carbon under the most trying engine
conditions. Yet it never causes preignition or mis-firing because of its high heat conductivity.

To this distinct advantage add the Champion two-piece construction, patented gaskets,
manganese nickel electrodes and skilled workmanship with most exacting standards of super-
vision, inspection and thorough test.

Regular Blue Box Types—all sizes for all cars, except Ford.75

The New "C" type spark plugs made in three sizes, C-1, C-4, C-7, to service practically
all passenger and commercial cars.75

Ford X Long ½ inch, Price.60

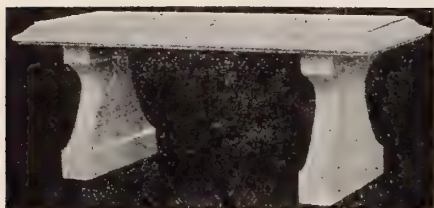
Ford 3-X Long 7/8 inch.75

Send for special circular giving table showing what size to use on car.



REGULAR FORD

CONCRETE STONE GARDENWARE AND POTTERY WARE



BENCH

43 inches long, 17 inches high, 15 inches wide. **Price, \$12.00.**

ROMAN LAWN BENCH

60 inches long. **Price, \$20.00.**

OIL JAR



21 inches high, 6½ inch base, 12-inch width, 8-inch top. **Price, Green, \$10.00**

LION BOX



Large Lion Box, 21-inch top, 17-inch base, 18 inches high. **Price, \$11.25.**

Small Lion Box, 16-inch top, 12½-inch base, 14 inches high. **Price, \$6.50.**

POMPEIN VASE



Price Complete, \$14.25.

Vase Only, \$8.00.

BOWLS



Egyptian Bowl, Price, \$9.00.

Roman Bowl, Price, \$9.00.

ANTIQUE FLOWER BOX



Large Antique, 30 inches long.

Price, \$7.00

Small Antique, 14 inches square,

Price, \$3.50.

LUXOR DECORATED CUT FLOWER JAR No. 2



7 inch.....\$.40
9 inch......60
11 inch......80

LUXOR OR GREYSTONE BIRD BATH AND PEDESTAL, No. 3



LUXOR SUN DIAL
Complete with Pedestal,
24 inches high,
\$15.00

23 inch diameter, 31 inches high. **Price, \$10.00.**

No. 8 LUXOR JAR AND PEDESTAL



10 inch, No. 8.....\$3.25
12 inch, No. 8..... 6.00

LUXOR BULB BOWL, No. 1



6½ inch.....\$.20
LUXOR BULB BOWL, No. 2



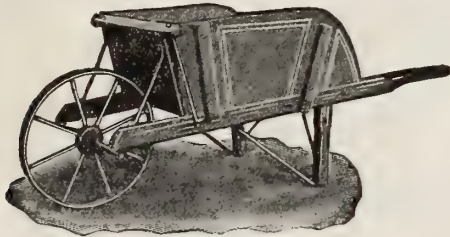
8 inch.....\$.50
9 inch......60

No. 3 LUXOR BULB BOWL

7 inch.....\$.35

LENNOX HANGING BASKETS
With Hanging Chain. **Price:** 8 inch, 60c.; 10 inch, 85c.

BALTIMORE GARDEN BARROWS



Made of seasoned wood, double frames, firmly bolted, iron braced.

No. 4, Medium Size or Man's Barrow

Description of No. 4 Wheelbarrow

Size of body: 26 inches long, 19 inches wide in front, 22 inches wide at back. Sideboards: 26 inches long, 12 inches high. Handles: 58 inches long, 2x1 3/4 inches. Wheel: 20 inches in diameter, 6 spokes. Weight, 50 pounds.

All barrows are furnished with 1 1/4 inch tread wheel.

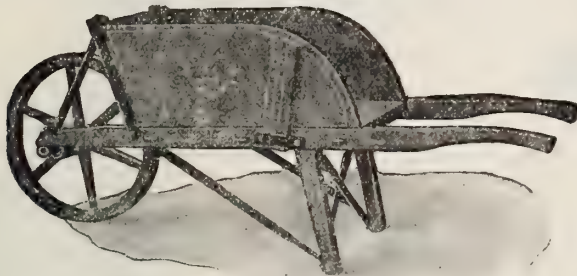
Steel or Wood Wheel, Price.....\$7.60

No. 5, Large Size or Man's Barrow

Description of No. 5 Wheelbarrow

A durable, neat Garden Barrow. Size of body: 28 inches long, 20 inches wide in front, 24 inches wide at back. Sideboards: 27 inches long, 12 inches high. Handles: 5 feet long, 2x1 3/4 inches. Wheel: 20 inches in diameter, 6 spokes. Weight 50 pounds.

Steel or Wood Wheel, Price.....\$8.00



No. 1 SPECIAL GARDEN BARROW

Size—30 inches long, 24 inches wide in front, 25 inches in back. Sideboards—12 inches high, 30 inches long. Handles—5 1/2 feet long, 2 3/4 x 1 3/4 inches. Wheel—21 inches diameter, 6 spokes. Hub—3-inch diameter in center. 2-inch diameter at ends.

No. 1 Barrow, with 1 1/2-inch tread. Weight, 60 lbs. Six crated in one package, 56 1/2 cubic feet.

Wood Wheel. Our Special Price.....\$10.00

No. 67 GREENHOUSE BARROW

For narrow aisles. Body 31 inches long, 18 inches wide at back and 15 inches in front. Wheel 20 inches high, 2-inch tires. Painted green. The handles have an iron safety guard to protect the hands, preventing hitting them when going through narrow places.

Price.....\$10.60

ALL STEEL BARROW



No. 4X, All Steel Tubular Frame Barrow. Capacity 3 cubic feet. 16-gauge steel. Weight 63 pounds. Price.....\$7.20

SOLID PRESSED STEEL TRAY BARROW

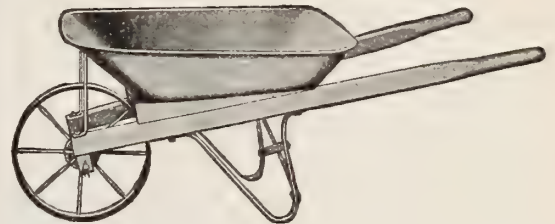


No. 2B

Durable Steel Wheel, Channel Steel Legs, Improved Steel Nose Guard, Tray Riser and Dash Straps. Capacity 4 cubic feet. Weight 68 pounds.

Price.....\$8.00

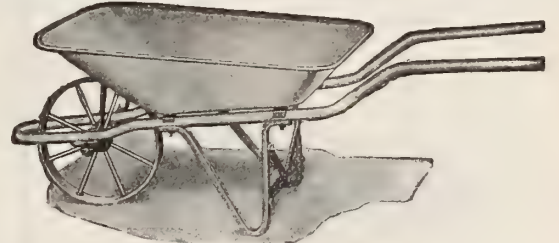
HANDA HOME AND FARM WHEELBARROW



HANDA—16-gauge pressed steel tray, capacity 3 cubic feet. Flat Steel Legs, substantial steel wheel. Weight 45 pounds.

Price.....\$5.00

TUBULAR FRAME SOLID PRESSED STEEL TRAY BARROW



No. 4, Tray 15-gauge Steel. Capacity 3 cubic feet. Weight, 70 pounds. Wheel, 16-inch diameter; tire, 1 1/2 x 3/8-inch, bored for 5/8-inch Cold Rolled Steel Axle. For moving earth, ashes and light work.

Price.....\$7.60

No. 5, Tray 16-gauge Steel. Capacity 4 cubic feet. Weight 75 pounds. Mounted on same frame as No. 4. For general purposes and light running. Will stand hard usage.

Price.....\$8.30

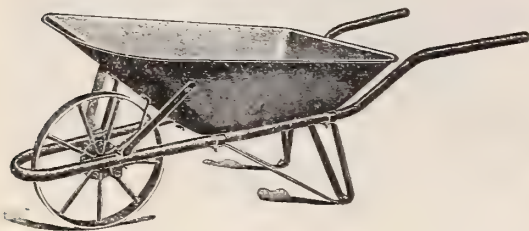
WHARF OR OYSTER BARROW



Top is iron-banded, strongly braced and bolted; 3 bushels capacity; weight, 60 lbs.

Steel Wheel, Our Special Price....\$7.50

Solid Pressed Steel Tray Coal and Coke Barrow No. 10



One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 13—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 33 in.; depth at wheel, 11½ in.; depth at handle, 8 in.; capacity, 6 cubic feet; weight 100 lbs.

Price, \$12.00.

Steel Wheels.....\$2.25
Extra Trays.....7.00

Straight Handle Stone Barrow

Strong, well made, iron strapped over bottom, and well bolted together. Handles 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. **Retail, \$8.25.**

Straight Handle Brick Barrow

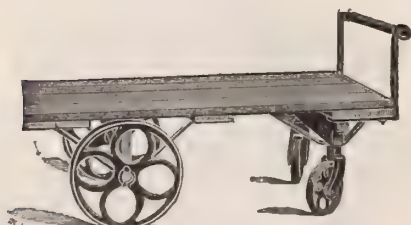
Retail, \$10.75.

Trucks of All Kinds



We are prepared to quote special prices on Trucks of every description. If you want anything special, write us for prices.

Improved Four-Wheel Platform Truck



For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

	Size	Diam.	Diam.	Weight	Price
No. 71—	2x4 ft.	12 in.	6 in.	170 lbs.	\$32.00
No. 82—	3x5 ft.	12 in.	6 in.	260 lbs.	40.00

Concrete and Mortar Barrow



Made especially to carry a full load of soft concrete or mortar without slopping.

4 cubic feet.
Weight, 80 lbs.

No. 77—Deep, Narrow Tray, rounded front and corners, \$9.60.

Extras for Barrows

	Price
Wood Wheels for Nos. 4 and 5 Garden Barrows.	\$3.00
Steel Wheels for Nos. 4 and 5 Garden Barrows.	3.00
Wood Wheels for No. 1 Garden Barrow.	3.00
Steel Wheels for No. 1 Garden Barrow.	3.00
Steel Wheels for Nos. A4 and B5 Barrows.	2.00
Steel Wheels for Solid Pressed Steel Tray Barrow	2.00
Steel Wheels for No. 10 Barrow.	2.25
Wood Wheels for Canal Barrow.	2.00
Steel Wheels for Canal Barrow.	2.00
Tray—No. 4 (All Steel Barrow)	4.00
Tray—No. 5 (All Steel Barrow)	5.00



Baltimore
Store Truck

Store Trucks

BALTIMORE STORE TRUCKS

Price, \$4.60.

New York Pattern

Half Strapped

No.	Price	No.	Price
No. 1.....	\$8.00	No. A1.....	\$9.00
No. 2.....	9.25	No. A2.....	11.00
No. 3.....	11.00	No. A3.....	12.75
No. 4.....	15.00	No. A4.....	16.00

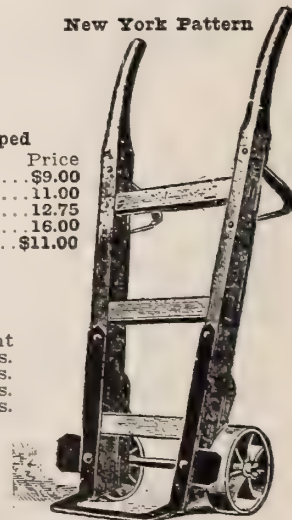
301A Barrel Truck, Iron Cross Bars.....\$11.00

Full Strapped

New York Pattern—Sizes

No.	Length Handles	Width Nose	Width at		Diam. Whs.	Weight
			Upper Bar	Lower Bar		
No. 1	48 in.	13 in.	18 in.	6 in.	42 lbs.	
No. 2	51 in.	14 in.	19½ in.	8 in.	58 lbs.	
No. 3	54 in.	15 in.	21 in.	8½ in.	72 lbs.	
No. 4	60 in.	16 in.	22½ in.	10 in.	91 lbs.	

New York Pattern

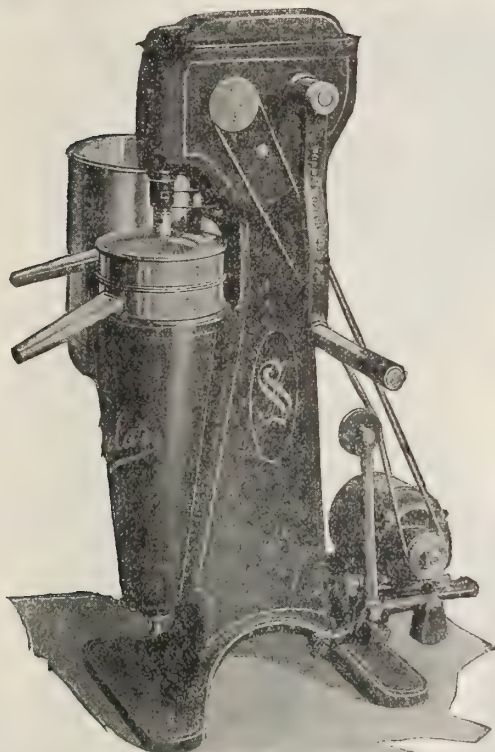


Wagon or Truck Skids

These skids are made from strong, select hickory side bars one end being ironed with wedge shaped steel points, between which the side bars extend which prevents them from splitting. The upper end is ironed in a similar way only it is equipped with hooks to fasten to the body of the vehicle.

Size	Price	Size	Price
6 Ft.....	\$8.00	10 Ft.....	\$11.00
8 Ft.....	10.00	12 Ft.....	15.50

WORLD'S GREATEST SEPARATOR AND WE WILL PROVE IT



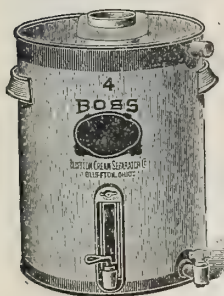
Forty-six years of experience have gone into the making of this new, latest model Sharples. It is the greatest Sharples ever produced; and that means a cream separator second to none in the world. Every improvement, every advantage which the separator industry has produced in the last 50 years is included in this wonderful new Sharples. And because of its exclusive, patented features, the new Sharples has important advantages which are shared by no other separator on the market. When we say that the new Sharples is our masterpiece—the greatest of cream separators—we back our claim with our reputation built up through 46 years of service to the American farmer. And we say further that **the Sharples is today the greatest separator value ever offered.** A standard separator, made in America by an old established, reputable firm; the greatest model in 46 years now sold at a big saving in price.

4 SIZES—TO SUIT EVERY NEED

The Sharples is made in 4 sizes to suit the requirements of every farmer. Choose a size that is **large enough** to do your job quickly and with the least work. You'll find it will pay you. The capacities listed below are based on 60 revolutions per minute. Through the exclusive Sharples combined Jet and Suction feed these capacities may be increased as much as 20% by turning faster.

No. 3—350 lbs. per hour....\$65.00	No. 7— 750 lbs. per hour....\$90.00
No. 5—550 lbs. per hour.... 75.00	No. 10—1050 lbs. per hour....115.00

THE BOSS CREAM SEPARATOR



The **Boss Cream Separator** consists of a water vessel containing one or more milk vessels fastened together with our Patent Can Attachment.

The **Water Vessel** is made of the very best quality of 26 gauge galvanized iron, and is provided with a large water faucet at the bottom and overflow pipe at the top.

The **Milk Vessel** is made of the best grade 3XXX 4AAAA Charcoal Tin Plate. It is oblong and deep with a sloping bottom, milk and cream will drain off rapidly. All seams are carefully soldered both on the inside and outside, and there is no chance whatever for milk to lodge and sour. All milk vessels are coated with Aluminum which is the best rust preventative known.

	Height	Width	Weight	
No. 1—2½ gal. milk vessel..	18 in.	13 in.	14 lb.	\$ 7.20
No. 2—4 gal. milk vessel..	20 in.	15 in.	17 lb.	8.00
No. 3—6 gal. milk vessel..	22 in.	17 in.	20 lb.	8.80
No. 4—8 gal. milk vessel..	24 in.	18 in.	22 lb.	9.60
No. 5—10 gal. milk vessel..	28 in.	18 in.	24 lb.	10.80

THE TWIN BOSS

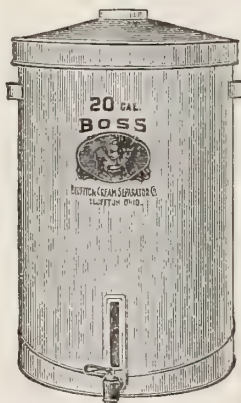
The **Twin Boss** is especially adapted for farmers and dairymen who get more than ten gallons of milk at a milking. A milk vessel that holds more than ten gallons is hard to handle and will not produce as good results as smaller ones.

We would also recommend **The Twin Boss** to those who prefer a Separator with two milk vessels, so that one can be used in the morning and the other in the evening. This method has many advantages over the Separator with the single milk vessel.

	Height	Length	Width	Weight	
22 two 2½ gal. milk vessels	18 in.	24 in.	13 in.	27 lbs.	\$14.40
24 two 4 gal. milk vessels	20 in.	30 in.	15 in.	33 lbs.	16.00
26 two 6 gal. milk vessels	22 in.	30 in.	17 in.	38 lbs.	17.60
28 two 8 gal. milk vessels	24 in.	30 in.	18 in.	41 lbs.	19.20
210 two 10 gal. milk vessels	28 in.	30 in.	18 in.	46 lbs.	21.60

THE BOSS

VENTILATING AND AERATING CREAM VEPARATOR

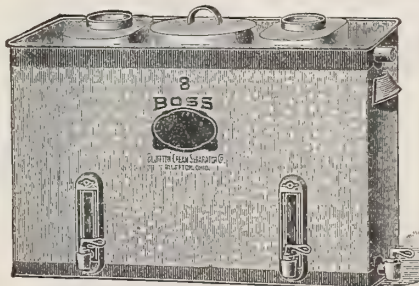


In the **Boss Dilutors** or **Water Mixers** the milk and water is mixed together or, in other words, the water is poured right into the milk so as to chill it instantly and cause the cream to raise in about one hour.

In ordering a separator of this kind, be sure and order one that will hold twice the amount of milk that you wish to put into it, so as to make allowance for water.

No.—Sizes	Prices
6— 8 gal., holds 4 gals. milk..	\$4.80
7—12 gal., holds 6 gals. milk..	5.60
8—16 gal., holds 8 gals. milk..	6.40
9—20 gal., holds 10 gals. milk..	7.20
10—24 gal., holds 12 gals. milk..	8.00

THE TRIPLE BOSS

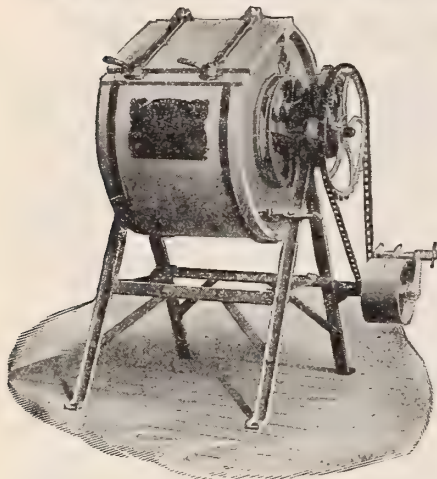


Too much can hardly be said in favor of the **Triple Boss**. It is fast getting to be our best seller and from all indications is the machine of the future. With two milk vessels, one for the morning's and one for the evening's milk, a cream can to keep the cream in the best condition for making first-class butter and room enough

back of the cream can to set another vessel, in which to keep the butter during hot weather, it is certainly all that one can desire in the line of a Cream Separator.

No.	Gallon	Gallon	Ht in.	L'g't in.	W'th in.	Wt lbs.	
32 two 2½ milk can, 2½ cream can,			18	24	13	30	\$16.00
34 two 4 milk can, 3 cream can,			20	30	15	37	17.60
36 two 6 milk can, 3 cream can,			22	30	17	42	19.20
38 two 8 milk can, 4 cream can,			24	30	18	45	20.80
310 two 10 milk can, 4 cream can,			28	30	18	50	24.00

MINNETONNA HOME CREAMERY



**CHURNS
THE BUTTER
AND
WORKS IT.**

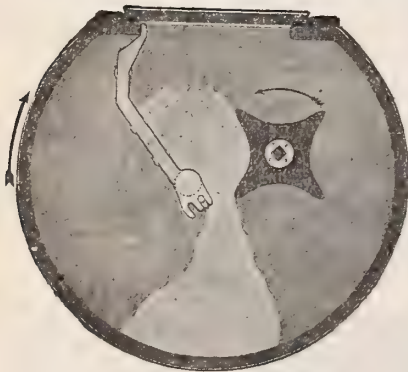
The Minnetonna process of churning is the most efficient method of agitating the cream during churning yet discovered. It works on the same principle that is used in some of the most modern and approved big creamery churns.

Style No. 1-H hand-power plant; churning capacity, 12 to 15 gallons; working capacity, up to 25 pounds butter.

The style No. 1-H is a very good size for dairy farmers wanting to make butter once or twice a week by hand, and having from five to fifteen cows.

No. 1 H. P. Minnetonna Home Creamery; hand and power. Churning capacity, with barrel half full, 12 gallons. Working capacity, 3 to 20 pounds. Can be belted to your gasoline engine. Pulley, 8 x 2 1/4 inches. Speed, 200 R. P. M. Floor space required, 2 ft. 8 in. x 2 ft. 7 in. Shipping weight, 210 pounds.

IT WORKS THE BUTTER PROPERLY AND QUICKLY

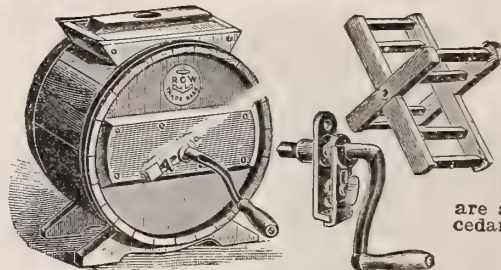


Cross section view of Minnetonna Home Creamery, showing how the butter is worked between two rolls.

Here is another feature wherein the Minnetonna is way ahead of the old-fashioned farm churn. The working is done in the barrel after the churning and washing are finished. The butter-fat particles are all gathered together and thoroughly worked between the main roll in the center of the barrel and the small idle roll at the end of the basket. The main roll revolves when the working gear is thrown into place. The whole job is done with a few revolutions of the barrel.

	Factory Number	Churning Capacity With Drum Half Full	Butter Working Capacity	Shipping Weight	Style	Price
Minnetonna Home Creamery	No. OMB 1 H.	12 Gallons	3 to 20 lbs	195 lbs.	Hand Operated	\$60.00
	No. OMB 1 H. P.	12 Gallons	3 to 20 lbs	210 lbs.	Hand and Power	\$70.00
	No. OMB 2 H. P.	20 Gallons	5 to 40 lbs	250 lbs.	Hand and Power	\$75.00

CEDAR CYLINDER CHURN



There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

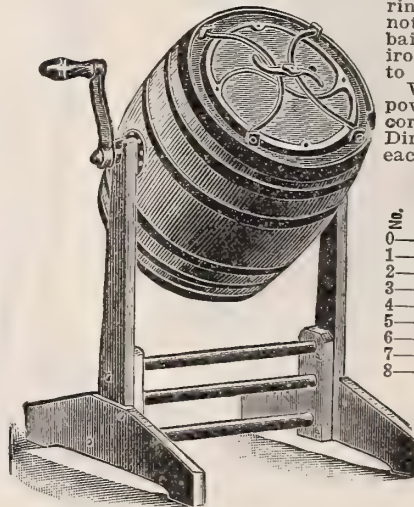
No. 1—2 1/4 gallons....\$4.40
No. 2—4 gallons.... 5.20

No. 3— 7 gallons....\$6.10
No. 4—10 1/2 gallons.... 6.95

Baltimore Favorite Churn

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.



No.	Capacity, Gallons	To Churn, Gallons	List Price	Retail Price
0	6		\$12.32	\$7.70
1	10		13.96	8.15
2	15		15.20	9.50
3	20	10	16.94	10.60
4	25	12	21.56	13.50
5	35	17	24.44	15.30
6	50	25	42.70	26.75
7	60	30	48.86	30.60
8	80	40	69.72	43.60

12-inch Single Pulleys with Trunnions for above. List, \$7.00. Retail, \$4.25. Pulley only. List Price, \$4.00. Retail, \$2.50. Trunnion only. List, \$3.00. Retail, \$1.75.

Cotton Pads for Sanitary Milk Strainers

These pads are cut round to fit in the strainer and are a necessity in producing clean milk.

They fit the Sanitary Strainer, as listed on page 109.
300 in carton, 6-inch.....\$1.50 6 1/2-inch.....\$1.75

Perfection Anti-Cow Kicker

No Chain or Cutting-Edge Parts to Lacerate, Bruise or Blemish the Cow's Leg.



The grapple or hook parts are made from a special size round steel, so shaped and arranged to prevent torturing or injuring the animal's leg.

Price \$1.25

Perfection Cow Tail Holder

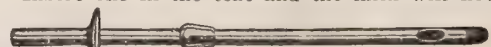
Will not annoy or excite the cow. Put on in a few seconds and taken off in less. Impossible for animal to switch when tail is placed between the springs.

Price35

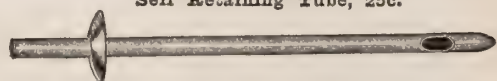
Aseptic Milking Tubes

FOR COWS WITH SORE TEATS.

Insert one in the teat and the milk will flow.



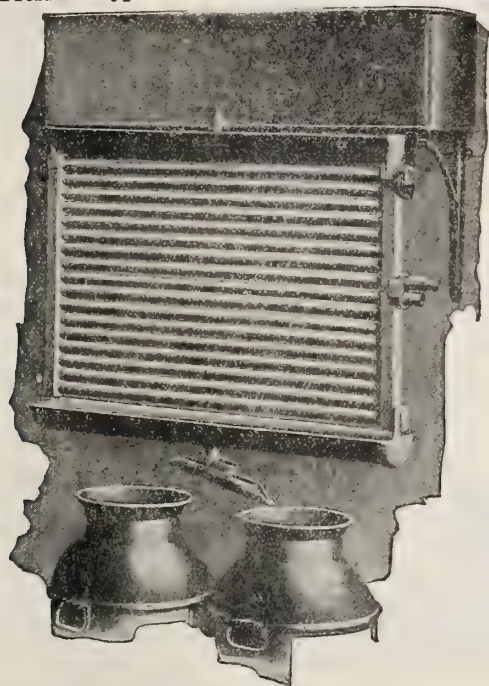
Self Retaining Tube, 25c.



Plain Tube, 25c.

Reid Tubular Milk Cooler for Farm Use

(The Pressure Type as Distinguished from the Gravity Type)



The Reid Tubular Cooler consists of 17 1-inch tinned copper tubes, tinned brass manifolds, copper troughs and reservoir, double or single waterway, brackets, nipples, brush and tilting spout are standard equipment.

Length of Cooler Tubes	Cooling Capacity in Gallons per hour	Total Width	Total Height	Capacity of Reservoir	Price
18 in.	48	24 in.	39	8 gals.	\$57.00
24 in.	64	30 in.	39	10 gals.	63.00
30 in.	80	36 in.	39	12 gals.	69.00
36 in.	96	42 in.	39	14 gals.	75.00

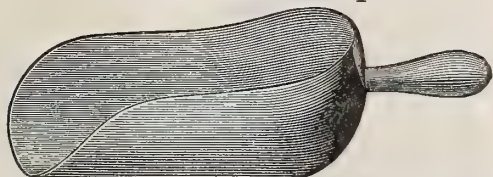
"SNOW BALL" FREEZER



Sizes	2-qt.	3-qt.	4-qt.	6-qt.	8-qt.
Retail Prices	\$3.40	\$4.05	\$5.00	\$6.30	\$8.10

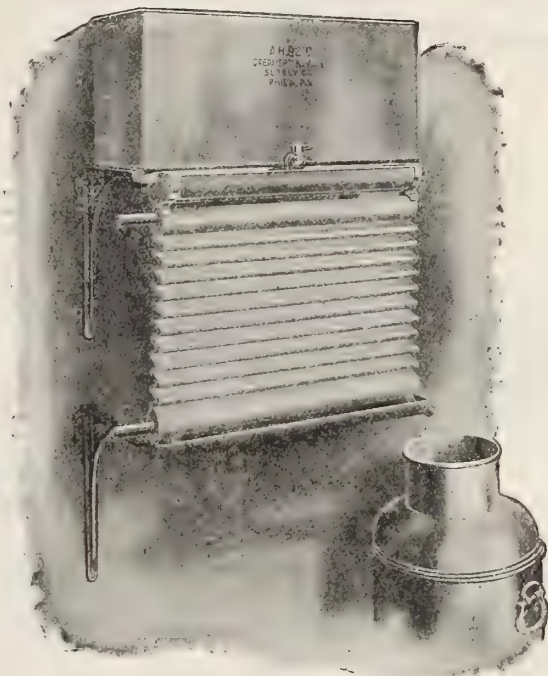
Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

Aluminum Scoops



Made of pure aluminum, cast in one piece, Light and convenient—Absolutely indestructible.

Reid Corrugated Milk Cooler

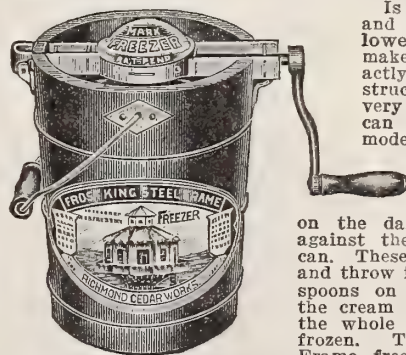


The Reid Corrugated Cooler is made of non-rusting or corroding material. The corrugations or cooling surface are of heavy tinned copper. The heads are made of castings of solid manganese bronze, which is the strongest tin and copper alloy made. The sheets are sweated to the heads and the inlet and outlet are made of seamless tinned brass tubing. The top and bottom troughs are made of tinned copper. The ends are of tinned brass. There is absolutely nothing about the body of the cooler to rust or wear out.

The standard reservoir is made of tinned steel with a sanitary removable plug faucet. If desired, a tinned copper reservoir can be furnished.

	Cooling capacity in gals. per hr.	Width of body	Capacity of reservoir	Price
No. 1	45	12 in.	5 1/2 gals.	\$31.50
No. 2	55	15 in.	8 gals.	35.00
No. 3	65	18 in.	9 gals.	38.00
No. 4	80	21 in.	11 gals.	43.00

The "FROST KING" Steel Frame Single Motion Freezer



Is a single-motion freezer, and is accordingly sold at a lower price than our other makes. It is, however, of exactly the same high-grade construction. The mechanism is very easy to operate, and the can being of the narrow model type makes the freezing very rapid. The operation of this freezer is extremely simple.

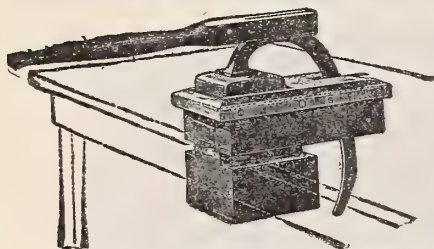
The wood scrapers on the dasher press automatically against the sides of the revolving can. These remove the frozen cream and throw it to the centre where the cream still unfrozen and return the whole to the sides to be refrozen. The "Frost King" Steel Frame freezer will produce a rich and evenly frozen ice-cream in about three minutes.

Sizes	2-qt.	3-qt.	4-qt.	6-qt.	8-qt.
Retail Prices	\$2.80	\$3.35	\$4.10	\$5.20	\$6.90

Our Special Price

No. 1—Size, 4x11 inches, each	\$1.45
No. 2—Size, 5x12 inches, each	1.80
No. 3—Size, 5 1/2 x14 inches, each	2.50
Per Set	5.50

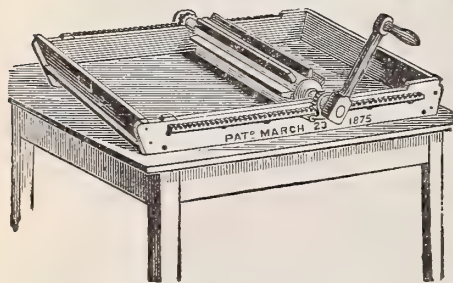
Lafayette Butter Printer



This is also self-gauging. Intended for use in creameries, but more especially for re-printing. Very simple and handy.

Either pound or half pound, with table, \$33.00.

Either pound or half pound, without table, \$15.50. Extra for initial or monogram, \$1.50



Reid's Butter Worker

Inside No. Measurement	Capacity, Pounds.	Weight, Pounds.	Retail Price.
4—14x24x2½ in.	10	20	\$12.00
3—17x27x2½ in.	20	25	14.00
2—20x36x2½ in.	30	29	16.50
1—23x36x2½ in.	50	45	19.00

Large size especially designed for mixing, reworking and coloring, or creamery use.

Inside No. Measurement	Capacity, Pounds.	Weight, Pounds.	Retail Price.
0—23x37x3 in.	75	60	\$27.00
00—23x56x3 in.	112	80	30.60
000—23x72x3 in.	150	100	39.60

When desired, we can send legs along with any size machine for \$5.00 extra, which can be set up after arrival at destination.

RICE'S CALF WEANERS

**ALSO PREVENTS COWS FROM
SUCKING THEMSELVES.**

No. 1—For Calves. Retail Price.....	\$.50
No. 2—For Heifers. Retail Price.....	.75
No. 3—For Cows. Retail Price.....	1.00



SHAW'S CALF WEANERS

The **SHAW'S CALF WEANER** is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

Prices: No. 1, 50c. No. 2, 65c. No. 3, 80c.

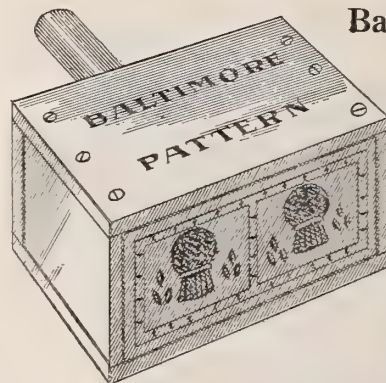


SPECIAL CARVED DESIGNS

The prices given below are for special carved blocks, pound or half pound, for any of the above printers.

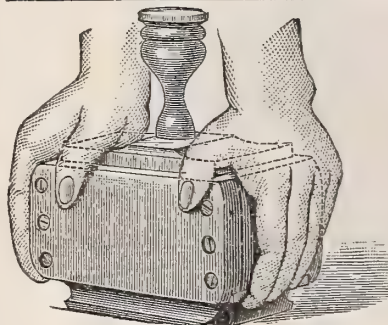
Plain Block, no carving.....	\$.50
Plain Sheaf Blocks, chain border.....	1.00
Initial on Block, up to five letters.....	1.50
Blocks with more than five letters, \$1.50, with an additional charge of 10 cents for each letter over five.	
For Lafayette Printers, add price of plate.....	.25

Baltimore Pattern, Hand-Made Butter Mould



This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. ½ lb Sheaf of Wheat Print, \$1.25; 1 lb. Sheaf of Wheat Print, \$1.50. ½ lb. Special Print, Carved with Initial, \$2.50; 1 lb. Special Print, Carved with Initial, \$2.75.

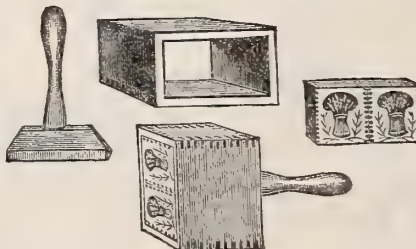
Extra Heavy Brick Butter Mould



Philadelphia Pattern, ½ pound. \$2.00
Philadelphia Pattern, 1 pound. 2.00

Can furnish moulds to order with initials cut at an extra cost of \$1.50

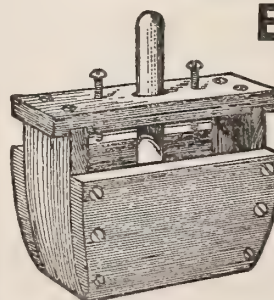
Butter Mould



**SEELEY
PATTERN**

Furnished with Sheaf of Wheat. Movable block.
½ pound.....65c.
1 pound.....85c.

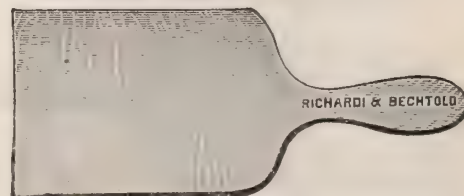
Economy Butter Printer



The **Economy Printer** is one of the most popular hand printers. It is of wood put together with brass screws, and has brass gauge screws at the top, making it self-gauging. With it butter may be printed very rapidly. Cutting the butter from the churn batch on the table, pressing the hopper full, leaving contents of hopper in a neatly formed block of butter which is pressed from the printer by pressure on the wood stem of block extending through the printer head block.

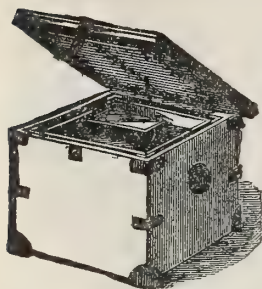
½ lb., complete, with sheaf of wheat block.....\$2.25
1 lb., complete, with sheaf of wheat block..... 2.25

LADLES AND SPADES



4x12 Butter Spade..... 15c. No. 1 Butter Ladle.....25c.

BUTTER BOXES



These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

Capacity	Price.
20-pound prints.....	\$13.75
30-pound prints.....	16.00
40-pound prints.....	20.00
56-pound prints.....	23.75
80-pound prints.....	26.25
96-pound prints.....	28.75
120-pound prints.....	32.45

PELOUZE DAIRY SCALE

Graduated by Tenths of a Pound.
GUARANTEED ACCURATE

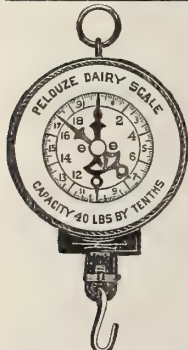
Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures and graduations.

Patent adjustable hand. First get exact weight of empty pail, then loosen screw on hand and turn back to zero. The results then obtained is the exact contents of the pail.

Very attractive and durable.

"PELOUZE" DAIRY SCALE.

No. D 40—Capacity, 40 lbs.....	\$4.75
No. D 60—Capacity, 60 lbs.....	5.00



MILK BOTTLE BASKET



These baskets are made from the best grade of flat and round steel wire. The welded joints make them the same as one piece, hence, all strain and shocks are distributed over the entire body.

No rivets being used in its construction, there is no part to get loose and at the same time is not weakened by rivet holes.

It has no crevices in which dirt can collect consequently it is easy to clean and sterilize.

6 bottles...	\$1.75
8 bottles...	2.00

DOMINION DAIRY AND HOUSEHOLD CLEANSER



An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. Price: 5-lb. bag, 35c.; 25-lb. bag, \$1.50

MILK BOTTLES



These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line. Prices named are for bottles F. O. B. Baltimore.

If you desire name plates, same can be put on any order of five gross or more of one size, at an additional cost of \$2.50 for each name plate. Each size bottle will require a different plate. On second orders, there will not be any extra charge for lettering.

	Quart	Pint	1/4 Pint	1/2 Pint
One dozen.....	\$ 1.10	\$.80	\$.70	\$.70
One gross.....	10.50	8.00	6.50	6.50
Two gross and over.....	10.45	7.95	6.45	6.45
Five gross and over.....	10.40	7.90	6.40	6.40
Fifteen gross and over.....	10.35	7.85	6.35	6.35

MILK BOTTLE CAPS



The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spilling the milk, or having to use anything to pry it out.

These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

One thousand.....	\$.65
Five thousand.....	3.00
Twenty-five thousand.....	14.75

LARGER QUANTITIES—PRICE ON APPLICATION

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pound, and 10x15 for two pounds. Price, 30c. per pound; by mail 40c.; 6 pounds, \$1.75.

DAIRY SALT

25-pound sacks.....	\$.75
50-pound sacks.....	1.20
100-pound sacks.....	2.00



NEW YORK Pattern Milk Cans

Furnished with our new Umbrella Cover, with seamless rim welded to top. The malleable iron handle on the Cans we stock are stationary, making the Can Handler to handle and Noiseless in shipping.

20-quart	\$3.85
30-quart	4.75
40-quart	5.00

Special Prices in Quantities.

Our charge for marking name on can will be 40 cents each. Permit Plate 15c.

Iowa Pattern Milk Cans

IOWA PATTERN HEAVY MILK CAN.

20-quart	\$3.15
32-quart	3.70
40-quart	3.90

Special Prices in Quantities.

Our charge for marking name on can will be 40 cents each. Permit Plate 15c.



Milk Cans or Kettles

Finest charcoal plate. Seamless cover and neck. Bottom reinforced with steel band. Heavy steel bail. Sanitary soldered. Full capacity.

2-quart	\$1.10
4-quart	1.25
6-quart	1.60
8-quart	1.75
10-quart	2.00
12-quart	2.25
16-quart	2.50
20-quart	2.75



CREAM PAILS

These pails are made from 5A Charcoal plate, Mirror Finish, are very strong and durable.

We furnish them in two sizes, with or without Gauge or Faucets and with outside lids.

14 Qt. Without Gauge and Faucet.....	\$1.30
20 Qt. Without Gauge and Faucet.....	1.50
20 Qt. With Gauge and Faucet.....	3.75

Double Bottom Cement Pail

Heavy reinforced Galvanized Cement Pail.....\$1.50



WELL BUCKETS

Crown, \$1.00.

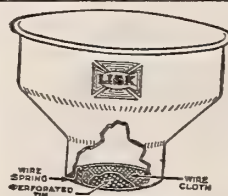


Well Bucket Pulleys

10 in.	\$.90
12 in.	1.00

Wooden Stable Bucket

J. I. C. Cedar—Heavy ironbound stable bucket. Each.....\$1.50



MILK STRAINERS

NEW SANITARY

Milk strainer is made from heavy steel pressed in one piece, has heavy removable perforated steel well tinned discs, between which you use the Sanitary cotton filter pads. This is the heaviest and best sanitary strainer made, 14 quarts, Price.....\$1.75



REGULAR STRAINERS

These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust.

Prices.

3-quart	\$1.15
6-quart	1.25
10-quart	1.65



Sanitary Fish Mouth Dairy Pail

Approved and recommended by State Dairy Inspectors. Used exclusively by many large and practical Dairy-men. Made from finest charcoal plate. One piece retinned top or hood. Steel Bail. Reinforced Ears. All seams sanitary soldered inside and out.

PLATE

IXX. HEAVY CHARCOAL

12-quart	\$2.00
14-quart	2.15



Dairy Strainer Pail

Coppered Bail. Natural finish Bail wood. Reinforced ears Handle near bottom to use when pouring from pail.

IXX. CHARCOAL PLATE

14-quart	\$1.60
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MILK PAILS

These pails are extra heavy block tin, heavy steel bail, coppered. Reinforced ears with two rivets. Should not be confused with cheap tin pails. 12-quart Sanitary Soldered Pails..\$1.20 14-quart Sanitary Soldered Pails.. 1.25

EXTRA HEAVY IXX. BLOCK TIN

12-quart	\$.90
14-quart .....	.95

HEAVY PAILS

12-quart	\$.60
14-quart .....	.65



Extra Heavy Galvanized Pails

Made from extra heavy sheets, heavy steel bail, strong ears, are Hot Dipped Galvanized after making, practically indestructible.

12-quart	\$.65
14-quart .....	.70

Heavy Galvanized Pails

12-quart	\$.55
14-quart .....	.60

GALVANIZED STEEL BASKETS



UTILITY STEEL BASKETS GALVANIZED

With Drop Handles; 1 Bushel, \$1.00; 1½ Bushels..... \$1.40

OAK BASKETS

1-Bushel Oak Basket (round splint)..... \$2.25

SPLIT BAMBOO AND OAK BASKETS

1 Bushel (iron bound).....\$1.35
1½ Bushels (iron bound)..... 1.65
2 Bushels (iron bound)..... 2.25

FLAT OAK SPLINT BASKETS

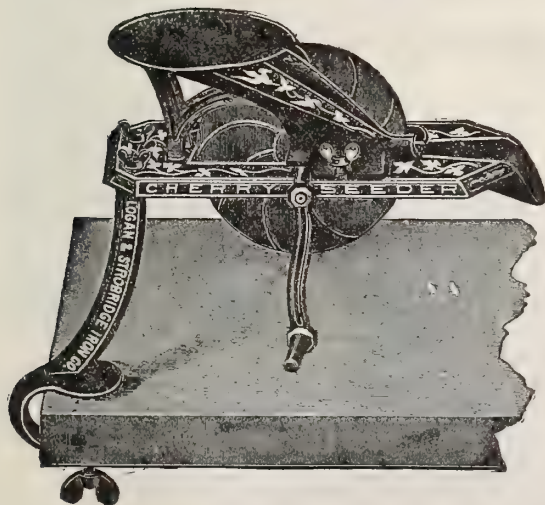
1 Bushel\$1.00
1½ Bushels 1.50
2 Bushels 1.75

DUST PROOF COAL ASH SIFTER

This Ash Sifter saves coal and is dust-proof. It is made from extra heavy galvanized sheets heavily wired and braced and equipped with a cover at top which prevents the dust from escaping. The revolving cylinder is made from extra heavy galvanized wire mesh, operated by handle or crank equipped with wooden grip. The lip at the end of sifter allows the coal to drop directly into the hod. A strong hook holds the hod securely in place.

PRICE\$3.50

CHERRY SEEDERS



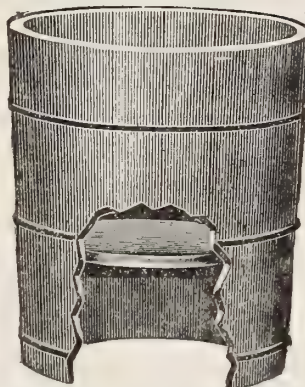
These cherry seeders are so constructed that they can be adjusted for different size cherries. They work very rapidly and do not tear up the fruit.

The No. 2 Seeder is made as shown in the illustration.

The No. 1 Seeder has four legs which screw to the table.

PRICE, No. 1.....\$1.00
PRICE, No. 2..... 1.00

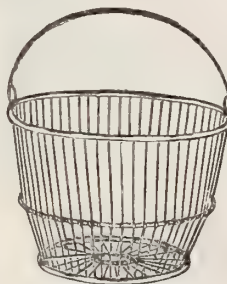
ALL PRICES IN CATALOG SUBJECT TO CHANGE
WITHOUT NOTICE.



CEDAR AND OAK MEASURES

Each
¼-Peck, wire hoops...\$.80
¼-Peck, flat hoops.... .60
Peck and ½-Peck combination, wire hoops. 1.20
Peck and ½-Peck, flat hoops90
½-Bushel, wire hoops. 1.60
½-Bushel, flat hoops.. 1.20

DAISY INDESTRUCTIBLE FARM BASKETS



"Daisy Indestructible" Farm Baskets combine every desirable quality for general use on the farm, ranch and plantation. They are light in weight, convenient to handle and yet unusually strong and durable.

They are made of galvanized wire and are smooth and free from rough wire ends, etc., that injure the hand and tear the clothing.

They do not warp, twist or split, and are not affected by exposure to weather if left in the field, and do not increase in weight after being set in water for any reason.

They are unequalled for handling potatoes and other tuberous vegetables, fruits, corn in ear, etc. Vegetables can be washed and dried without removing them from the basket. Fine for dipping potatoes.

Number 2-PB—½ bushel rounded full. Made of Number 12 Galvanized Wire, spaced approximately ½ inch apart. Hoop welded to each vertical wire. Patent ears that can never come off. Regular bails Number 6 Galvanized Wire.

PRICE\$1.25

THE EAGLE SLAW CUTTER

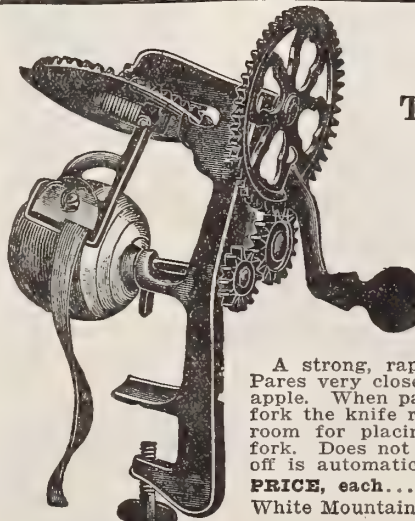


Slaw Cutter and Vegetable Slicer is the speediest, handiest and most serviceable cutter on the market for cutting Slaw, Kraut, Noodles, Cucumbers, Potatoes, Onions, Parsnips, Pie Plant, Beets, Bananas, Turnips, Vegetable Oysters, String Beans, Pineapples, Saratoga Chips, etc.

The cleanest, quickest and nicest way to prepare fruits and vegetables that require cutting is to use an "Eagle" Slaw Cutter and Vegetable Slicer.

PRICE\$3.25

1898 TURNTABLE APPLE PARER



A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic.

PRICE, each.....\$1.25
White Mountain Parer and Corer 1.00

MILK TESTERS AND GLASSWARE

WAGNER PRECISION BABCOCK GLASSWARE

For testing milk and its products, in accordance with specifications formulated by the Bureau of Standards, Washington, D. C., and adopted by the Official Dairy Instructors' Association. The markings are unusually exact, the lines being sharp and uniform. All the markings are permanent being filled with a red enamel which will not wash out.

P1000	10% Milk Test Bottles.....	Each	\$.25	Doz.	\$2.75
P1005	30% Cream Test Bottles.....	Each	.30	Doz.	3.00
P1011	50% Cream Test Bottles.....	Each	.35	Doz.	3.75
1014	1-100% Skim Milk Test Bottles.....	Each	.75	Doz.	8.00
1026	Acid Measures.....	Each	.15	Doz.	1.50
1019	17.6 c. c. Milk Pipette.....	Each	.30	Doz.	3.00
1023	9 c. c. Cream Pipette.....	Each	.30	Doz.	3.00

THE BABCOCK TESTER

No. 4-2 Bottle size for milk only\$9.50

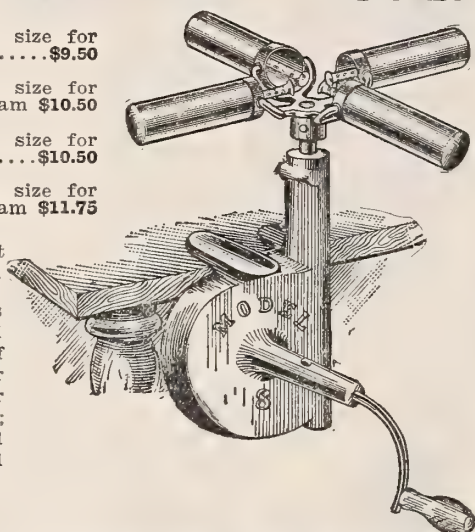
No. 5-2 Bottle size for milk and cream \$10.50

No. 6-4 Bottle size for milk only\$10.50

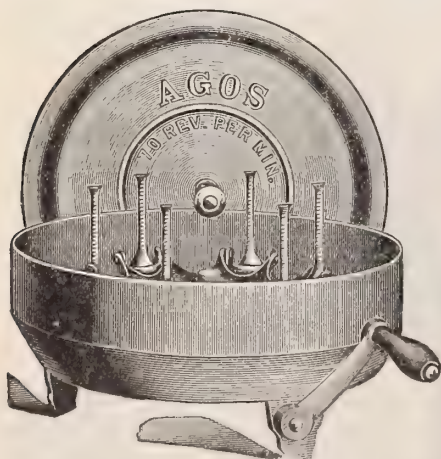
No. 7-4 Bottle size for milk and cream \$11.75

Shipping weight about 17 pounds.

All Testers are equipped with full set of glassware for testing milk or milk and cream; also furnished with brush and bottle of acid.



THE "AGOS" BABCOCK MILK TESTER CAST IRON FRAME

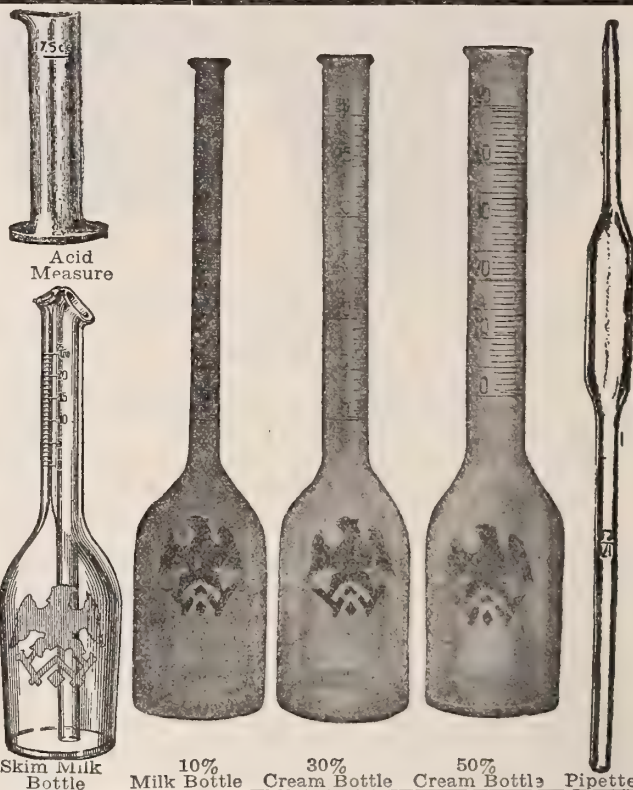


The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as follows:

6 Bottles	\$20.00
8 Bottles	21.00
12 Bottles	22.00
24 Bottles	33.00

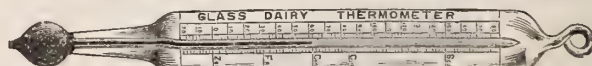
SULPHURIC ACID FOR TESTING

9-Pound Bottles.....\$2.25
Larger quantities, price on application.



Skim Milk Bottle 10% Milk Bottle 30% Cream Bottle 50% Cream Bottle Pipette

FLOATING GLASS DAIRY THERMOMETERS



8-inch. Price, 35c. each.
8-inch Flange Dairy Thermometer, stands boiling water Price, \$1.25 each
Milk Hydrometer, No 2085 (Quevenne), \$1.50
Add 8 cents each if by mail



WELL'S & RICHARDSON
CO.'S

BUTTER COLORING

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring.

Dandelion Brand Butter Coloring is guaranteed to be purely vegetable, and that the use of same for coloring butter is permitted under all Food Laws—State and National.

Put up in four sizes
Small size to color 500 lbs.\$.35
Medium size to color 1,250 lbs. .65
Large size to color 2,800 lbs. ... 1.00
Gallon cans..... 5.00

35c. and 65c. size by mail
Add 15c. for Postage and Packing

SHARPLES SEPARATOR BRUSHES



No. 1—Bowl Brush.....	\$0.35
No. 2—Bowl Brush.....	.35
No. 3—Bowl Brush.....	.35
No. 4—Bowl Brush.....	.35
No. 6—Bowl Brush.....	.35
Spout Brushes.....	.25
Feed Tube Cleaner Brush.....	.10

HAND BOTTLE BRUSHES



No. 86—Prepared Stiff Bristle; brush part, 2 $\frac{3}{4}$ inches diameter, 6 inches long; hickory handle, $\frac{1}{2}$ -inch in diameter, 9 inches long. Dozen, \$6.00; each, 55c.

MILK CAN BRUSHES

Made of an excellent grade of durable fibre, very full, with solid backs. Unquestionably the best and most serviceable Milk Can Brushes on the market.



No. 416—Stiff Palmetto; brush part, 4x5 inches. Dozen, \$4.50. Each, 40c.

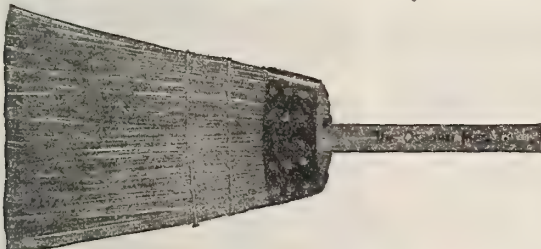


No. 08—Stiff Palmetto Fibre; length on face, 9 inches; width on face, 5 inches. Dozen,

\$5.75; each, 50c.

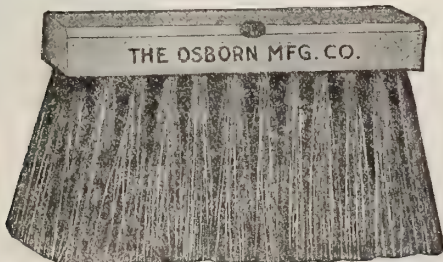
FACTORY, WAREHOUSE AND RAILROAD BROOMS

These brooms are made with heavy steel bands or heads, securely nailed together. By this method of construction it is impossible for the brooms to work loose on the handles. They will last longer and give better service than the ordinary corn broom.



No. 223—Japanese Fibre; length of broom part, 14 inches..	\$.60
No. 221—Japanese Fibre; length of broom part, 16 inches..	.75
No. 200—All-Corn Heavy Warehouse Broom.....	1.00
No. 211—Corn and Bamboo Broom.....	1.00

STABLE OR PUSH BROOMS



These brooms are of the highest quality. Made with heavy blocks.
No. 0286—Genuine African Bass, 4 rows.....\$1.00

Improved Barrel Headers

The Nos. 1 and 2 Barrel Headers have the followers attached to the screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The side clamps are steel and fastened with two bolts.

Price.

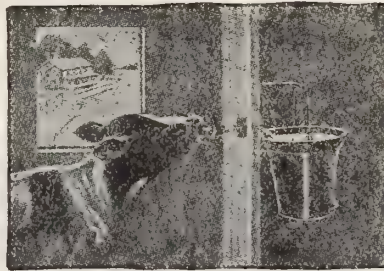
No. 1 and No. 1-A, with $\frac{3}{4}$ -inch screw.....	\$4.00
No. 2, with 1-inch screw.....	4.25
No. 6, with lever.....	3.50



Keystone Calf Feeder

A simple device, based on natural laws, for feeding calves without teaching them to drink. The food is sucked through a rubber nipple and is mixed with the saliva and the digestive juices in a natural way. This feeder will prevent scours. It will make the calves fat and healthy. Used by more than 30 agricultural colleges.

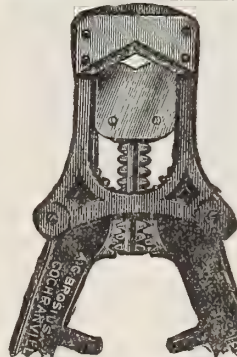
Price.....\$2.25



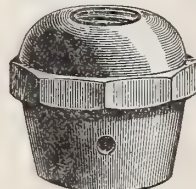
Keystone Dehorning Clipper

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper with leader and rope, extra blades and screw, fully warranted. Our Special Price, \$18.00 Clipper alone; Our Special Price, \$16.00,



OX BALLS



PAIR.....40c.

BULL RINGS

2 $\frac{1}{2}$ -in. Copper Rings, 45c.
3-inch Copper Rings, 50c.

HEAVY BULL RING, \$1.60



HILL'S HOG RINGER

PRICE.....25c.
HOG SNOOT CUTTER. PRICE.....\$2.00
PIG RINGS.....20c.
SHOAT RINGS.....20c.
HOG RINGS...20c. Box



BULL LEADER SNAPS

PRICE, WITHOUT POLE.....\$1.25



The Universal Meat Chopper

The Universal is the most perfect meat chopper on the market. The feed screw is so constructed that it feeds the meat to the knives without mashing it. The knives work against the plate giving a good clean cut, producing the best grade of chopped meat. The grinders are made in three numbers. The No. 331 has a plate that fastens to the table, as shown in illustration. The No. 333 has an arm that clamps to the table. The No. 304 has a plate like the No. 331. These grinders are all heavily tinned and will not rust.

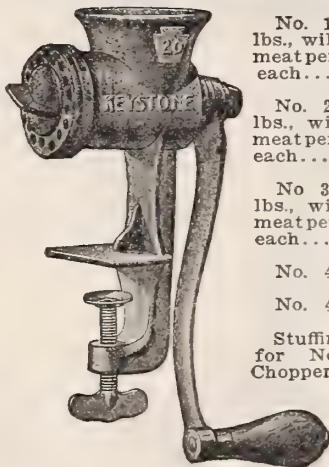
No. 331.....	\$5.00
No. 333.....	5.50
No. 304.....	8.75
Stuffing Attachment for Nos. 331 and 333.....	\$1.00
Stuffing Attachment for No. 304.....	1.15

THE UNIVERSAL FOOD CHOPPER

Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity.

No. 0, Small Family three cutters.....	\$1.85
No. 1.....	2.25

KEYSTONE FOOD CHOPPER



No. 10, weight 3½ lbs., will chop 1½ lbs. meat per minute. Price each.....\$1.60

No. 20, weight 4½ lbs., will chop 2 lbs. meat per minute. Price each.....\$1.90

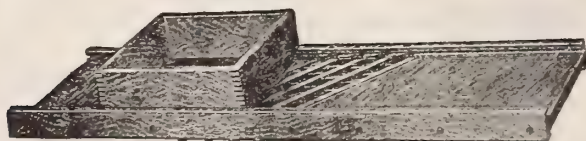
No. 30, weight 6¼ lbs., will chop 3 lbs. meat per minute. Price each.....\$2.40

No. 40.....\$3.00

No. 45.....\$3.00

Stuffing Attachment for No. 20 or 30 Chopper.....85c.

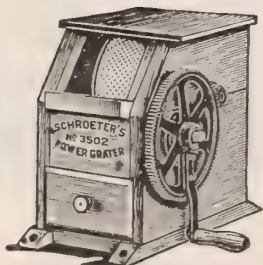
SLIDING KRAUT CUTTER



Sliding Kraut Cutter with Two, Three or Four Knives.

No. 50—2 Knives, 8x26 inches.....	\$2.50
No. 55—3 Knives, 8x26 inches.....	2.75
No. 65—3 Knives, 9x30 inches.....	3.75
No. 80—4 Knives, 13½x40 inches.....	8.00

HORSE RADISH GRATER



This Grater is designed for hand power only. Is constructed of wood, excepting Grating Drum, the sides of which are iron bolted together over which our Patent Double Grating Drum is riveted.

Besides horseradish, this machine will grate equally as well the following: Coconut, Potatoes, Bread, Turnips, Carrots and vegetables of all kinds.

PRICE.....\$35.00

UNIVERSAL ALL STEEL LARD and FRUIT PRESS and SAUSAGE STUFFER

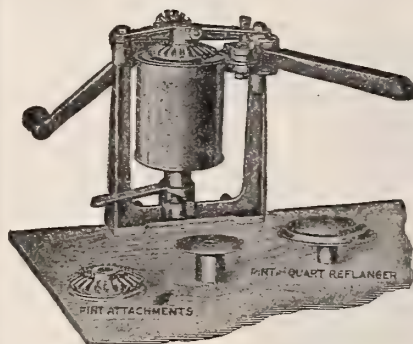


PRICES.

No. 44—4 quarts..	\$10.50
No. 66—6 quarts..	11.50
No. 88—8 quarts..	12.50

This Machine is an unexcelled Lard Press, an equally good Sausage Stuffer, and is also extensively used for pressing the juices from fruit for making jelly, etc. The Universal Steel Press has many advantages over the old style cast-iron press. It is unbreakable, rigid and strong, and is more easily handled because it is lighter.

VIRGINIA HOME CAN SEALER



Virginia Home Can Sealer with can ready for sealing—Seals, Opens and Re-Seals. Enables you to use same Cans for next season.

Sealer.....\$21.00

With this Virginia Home Can Sealer and Virginia Sanitary Tin Cans, it is as easy and cheaply for you to do just as good canning in your own kitchen as if you had the finest canning plant in the world. In fact, you would have as good equipment only on a small, inexpensive scale with the additional advantage of having absolutely fresh-picked products to start with. It is far more economical to use Sanitary Tin Cans than it is to use glass jars for your canning. You can buy 100 Virginia Sanitary Cans for the price of two dozen glass jars.

SANITARY TIN CANS

For use with Virginia Home Can Sealer.

No. 2.....	\$.05
No. 3.....	.07

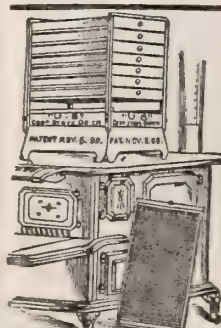


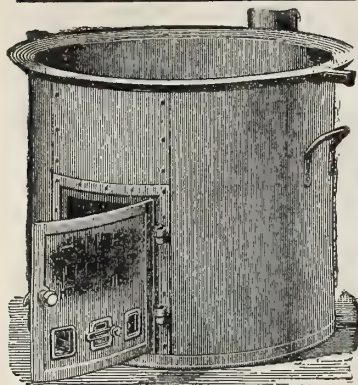
COOK STOVE FRUIT DRIER

To meet the demand for a small Drier, suitable for use on any ordinary room, kitchen, cook or gasoline stove, we offer the U. S. Drier. It is a very simple economical, efficient and convenient arrangement, and for farmers use just what is wanted, a durable drier at a reasonable price.

Dimensions, 26 in. high, and takes up space on stove, 21x15 inches.

OUR SPECIAL PRICE, \$7.50





G. & T. BOILER AND FEED COOKER

Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside, thus retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.

Unusual Rating.	Actual Capacity.	Diameter of Furnace.	Shipping Weight.	Price. Furnace with Kettle.
No. 3—30 gallons.	24 1/4 gallons.	26 inches.	160 pounds.	\$20.75
No. 4—35 gallons.	30 gallons.	28 1/2 inches.	190 pounds.	23.00
No. 5—40 gallons.	37 gallons.	29 1/2 inches.	200 pounds.	27.00
No. 6—50 gallons.	45 gallons.	31 1/2 inches.	253 pounds.	31.00
No. 7—55 gallons.	52 gallons.	32 inches.	280 pounds.	33.00

We always ship furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is required, but for coal it is necessary to use firepot.

FIREPOT. Retail Price, \$7.85

Furnaces only.

Price
No. 3
No. 4
No. 5
No. 6
No. 7

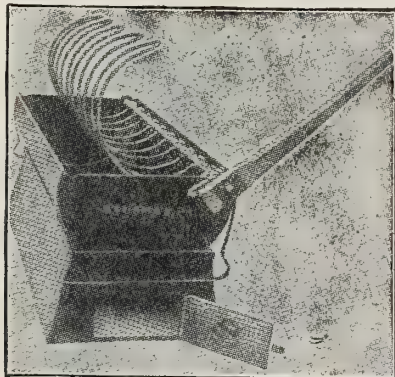
Kettles only.

Price
No. 4
No. 5
No. 6
No. 7

STEEL HOG SCALDER AND COOKER

It takes the lead of anything on the market. When not used for scalding, can be used for feed cooker, boiling spray material, or for dipping sheep, can also be used for watering stock.

This outfit will save half of the time, and most of the hard labor in connection with Hog Killing, and will pay for itself in a very short time.



Plain Scalding does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 lbs.

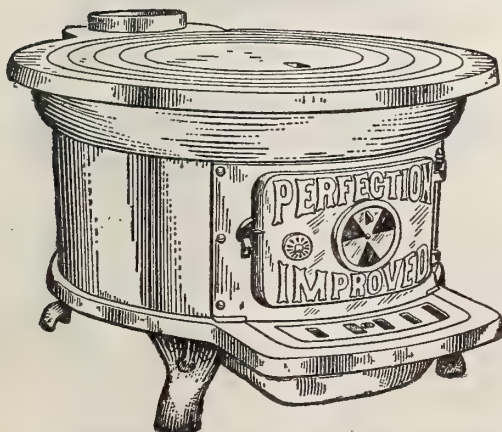
Plain Scalding, 6 ft. by 30 in. by 18 in. deep. **Price, \$27.00.**

Fire-box with 5-inch pipe hole. **Price, \$15.00.**

Dumping Rack with lever. **Price, \$15.00.**

Scalding complete. **Price, \$55.00.**

IMPROVED KETTLE RANGE



This Kettle Range is made to accommodate any kettle a farmer may happen to have. Any copper or iron kettle up to 40-gallon capacity can be used. The largest opening, when all the rings are off, is 25 inches, and the smallest is 12 inches.

The outside of the fire-box is made of heavy steel plates and lined inside with cast-iron firebacks on all sides. The size of the firebox is 12 inches wide and 24 inches long and supplied with grate and ash pit, and has ash pan so that ashes can be removed without use of shovel. Pipe opening for 6-inch pipe. Weight, 200 lbs. Our Special Price, \$37.50.



IRON KETTLES

Capacity
No. 4... 15 gals.
No. 5... 20 gals.
No. 6... 25 gals.
No. 7... 30 gals.

Price.
No. 4.....\$5.25
No. 5..... 6.00
No. 6..... 8.00
No. 7.....10.00

FARMERS FAVORITE

FEED COOKER AND AGRICULTURAL BOILER

The top section or boiler, is made of heavy galvanized steel that will not rust, and is also provided with four heavy tinned malleable iron drop handles.

The lower section or furnace is made with cast iron ends, and the center, or body, of heavy steel plate.

The door is extra large, which will allow large chunks and knots to be used without the labor of splitting.

They are guaranteed exactly as represented, both as to construction and capacity of boilers.

With this cooker you are not obliged to have a special brick foundation to make it safe, thus making it necessary to use it in that particular place only. But it may be used anywhere, in the back kitchen, milk room, shop, wood house, cellar, hog house, barn, poultry house, or out of doors, with perfect safety. Wherever you want to cook food or heat water, set it up and use it.

The "Farmers Favorite" is used for a great variety of purposes, such as cooking grain and vegetables for stock and poultry.

Heating water for scalding hogs and poultry, Boiling Spraying Mixture, Heating Water on Wash Day, Heating Water for Washing Dairy Utensils, Rendering Lard and Tallow, Boiling Sorghum, Heating Drinking Water for Stock.

Capacity	Size Boiler	Length Fire Box	Price
No. 2 30 gal.	22x24x13 1/2	24 in.	\$21.00
No. 3 40 gal.	22x30x14	30 in.	23.50
No. 4 50 gal.	22x36x15	36 in.	26.00
No. 6 100 gal.	22x60x17	60 in.	33.00

TOP PLATES WITH HOLES FOR KETTLES

No. 2 Cooker.....\$3.75	No. 4 Cooker.....\$5.30
No. 3 Cooker..... 4.50	No. 6 Cooker..... 8.15

GRATES AND LININGS

For burning hard or soft coal or coke.....\$10.00

FAIRBANKS WAGON AND STOCK SCALES

For outdoor weighing with any of these scales a substantial wood beam box is usually supplied but for office weighing a short iron pillar outfit is preferable. A full capacity type registering beam may be used instead of the full capacity plain beam. On special order they may be equipped with extension levers to increase the distance from the edge of the platform to beam rod to suit a required special beam location.

WRITE FOR CATALOGUE & PRICES

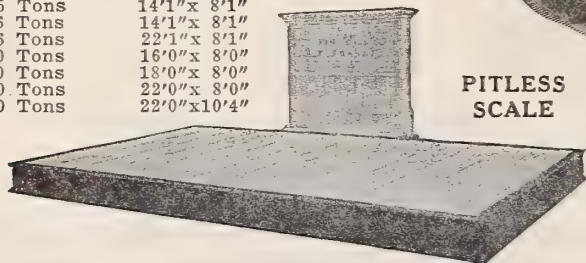


PIT SCALE

Capacity Platform

5 Tons	14'1"x 8'1"
6 Tons	14'1"x 8'1"
6 Tons	22'1"x 8'1"
10 Tons	16'0"x 8'0"
10 Tons	18'0"x 8'0"
10 Tons	22'0"x 8'0"
10 Tons	22'0"x10'4"

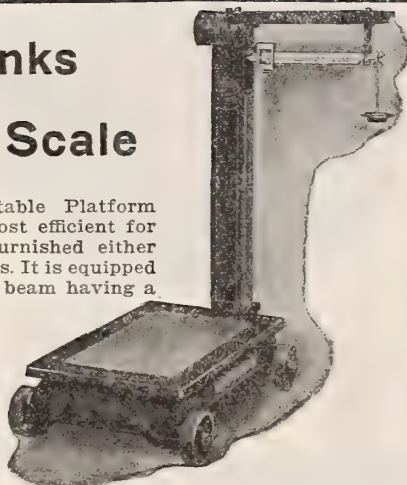
PITLESS SCALE



Fairbanks Portable Scale

This type of Portable Platform Scale is one of the most efficient for general use and is furnished either with or without wheels. It is equipped with arrow-tip single beam having a center indicating sliding poise with set-screw, all of brass.

Durably and attractively finished in blue with bronze stripe, all well varnished for protection.



No.	Capacity	Size of Platform	Price
1124	1000	18"x27"	\$25.00
1128	500	16"x25"	22.25

Model 20

Reversible Adjustable

THE MARTIN FARM DITCHER AND TERRACER

F. O. B. Factory



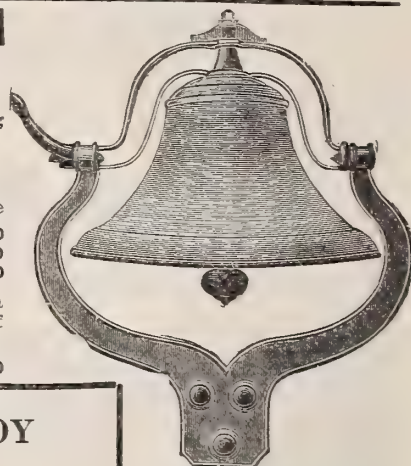
Crystal Metal Farm Bells

Prices, including hangings complete. Bronzed.

No.	Wgt. com- plete	Diam. of Bell	Price
1.	40 lbs.	15 in.	\$5.00
2.	50 lbs.	17 in.	6.00
3.	75 lbs.	19 in.	10.00

No. 4 Bell has a stand instead of Yoke.

4.	100 lbs.	21 in.	12.50
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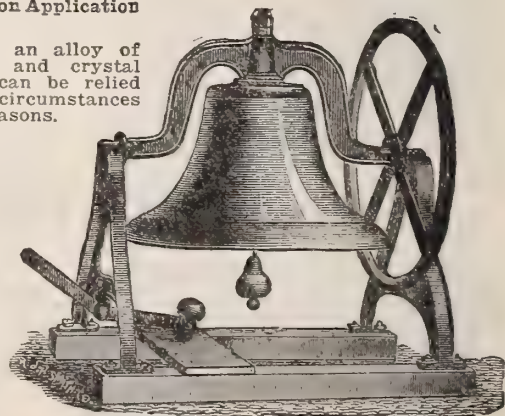


STEEL ALLOY SCHOOL BELLS

Church Bells on Application

Cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.

Tolling hammer not furnished with No. 22. When furnished with No. 24; Retail, \$6.00. Prices on above named are for Complete Bells, and include wood sills and iron Wheels.



No.	Diam.	Weight Bell only	(MOUNTED) Wt. complete	Price
20	20 in.	110 pounds	165 pounds	\$20.00
22	22 in.	122 pounds	205 pounds	24.00
24	24 in.	153 pounds	250 pounds	29.00

Specifications:

Landside, 10 inches by 3/4-inch by 9 1/2 feet. Bessemer steel. Rear guide fins, crucible plow steel. All steel stationary footboard built into center of landside. Gooseneck, clogless hitch, heavy steel forging extends from draw bar to center of cutting blade. Steel rail handle to control cutting blade. Rolling coulter in front.

Model 20—Standard Double Edge Cutting Blade, Steel Beam, reversible, No seat. 2 to 4-horse.....\$75.00

Model 20-B—Like Model 20, but smaller; for 2 horses. Price without seat... 70.00

Seats, extra 3.50

Road Drag and Snow Blade for any model, extra..... 6.50

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

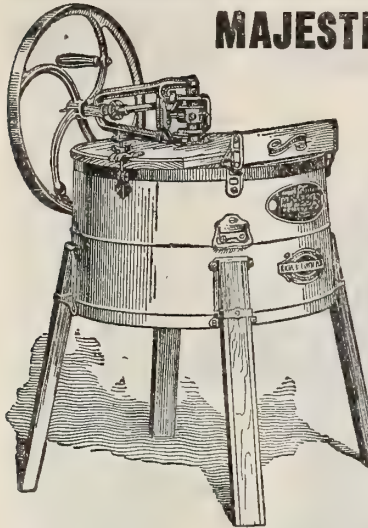
MAJESTIC

**ROTARY WASHER
ELECTRIC WELDED
WIRE HOOPS.**

**VIRGINIA WHITE
CEDAR TUB.
ROLLER BEARINGS.**

This is the lightest-running and easiest-working Washing Machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire and are welded by electricity; these are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

**OUR SPECIAL PRICE,
\$13.50.**

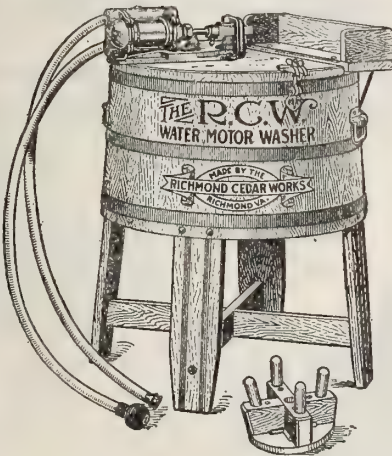


THE R. C. W. WATER MOTOR WASHER

THE R. C. W. WATER MOTOR WASHER is equipped with the Horizontal, Piston Type of Water Motor, some users prefer this type of motor, which is a very good one.

The tub is made from first-grade white cedar, which is the best material obtainable for this purpose.

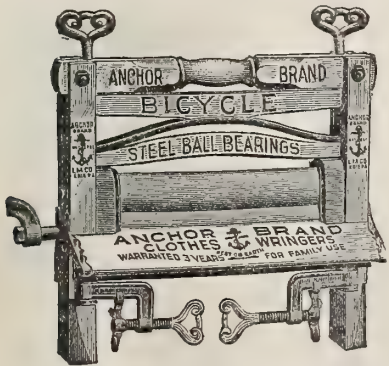
The construction of this machine is the best, and with proper care should last many years, and give the very best service. **PRICE \$21.50**



BICYCLE WRINGER

Warranted three years for Family Use. This is an exceptionally strong wood frame wringer. Specially constructed Ball Bearing, Cog Gears, inclosed in specially constructed shields. No danger of getting fingers in cogs.

The construction of bearings is such that there is not any danger of getting grease on to the rolls.
No. 770 Bicycle, Rolls 10x1 1/4 inches **Price.....\$6.60**
No. 771 Bicycle, Rolls 10x1 1/4 inches **Price.....7.00**



This Wood Frame Wringer is warranted for three years for family use. Has Galvanized Metal Bearings, Flat Steel Spring, easily adjusted with thumb screws for light and heavy work.



No. 110
\$6.00
No. 111
\$6.30
No. 112
\$6.75

**Domestic
Wringer**

DOMESTIC WRINGER

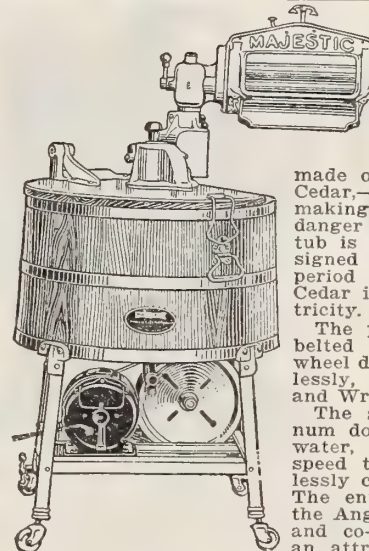
Steel Spiral Springs, adjusted with thumb nuts for heavy or light work.

The Cog Wheels on rollers prevents strain.
No. 22 Domestic, Rolls 10x1 1/4 in. **Price.....\$5.50.**

**BICYCLE
WRINGER**

This wringer is constructed on the general principal of the Domestic Steel Frame Wringer, but has ball bearings.
No. 740 Bicycle Rolls, 10x1 1/4 in. **Price...\$6.60**
No. 741 Bicycle Rolls, 11x1 1/4 in. **Price...7.00**
Wringer Rolls, as Extras.
10 in. **Price..\$2.15** 11 in., **\$2.35** 12 in., **\$2.55,**

Majestic Electric Power Washer



The Tub of the MAJESTIC POWER Washer is made of selected Virginia White Cedar,—the best known wood for making Washing Machines. No danger of copper stains—and the tub is staunch, and specially designed to give real service over a period of years. Virginia White Cedar is a non-conductor of electricity.

The powerful 1/4 H. P. Motor, belted to the well-balanced fly wheel drives the mechanism noiselessly, and operates the Washer and Wringer with power to spare.

The specially designed, aluminum dolly agitates the suds and water, with sufficient force and speed to wash the clothes spotlessly clean in a few minutes.

The entire mechanism, including the Angle Iron Stand, is designed and co-ordinated so as to make an attractive, powerful and efficient household necessity, and priced within the reach of the medium buyer.

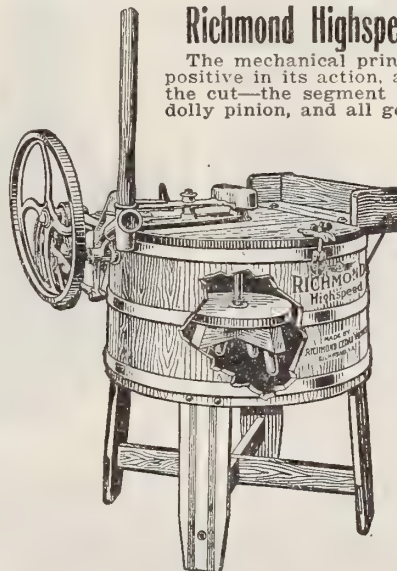
The MAJESTIC is built to last

Now the Wringer comes into play. This is arranged to lock in any position desired, by a simple but effective device, and this aluminum wringer, with 5-year rolls, is a gem.

Price\$62.50

Richmond Highspeed Washing Machine

The mechanical principle of this machine is positive in its action, and as you will see from the cut—the segment lever directly drives the dolly pinion, and all gears are incased in accident-proof covers, reducing danger to minimum.

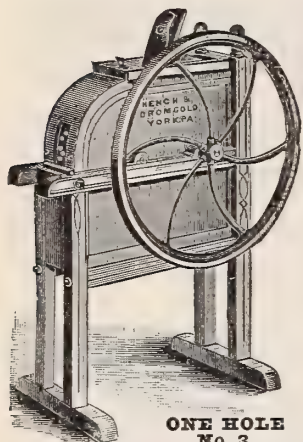


We use cut gears on this machine, and a heavy fly wheel hung parallel with the hinge line, so that the lid can be raised easily, while the mechanism does not get out of gear. You will note the segment lever has a piston type head, ending in a ball which travels in the machined raceway, so arranged as to produce the reverse action of the dolly.

PRICE \$18.35



No. 23 Domestic, Rolls 11x1 1/4 in. **Price \$5.85.**

ONE HOLE
No. 3.

Separates corn and cob. Corn discharged beneath. Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day. 130 pounds.

Price, \$15.00

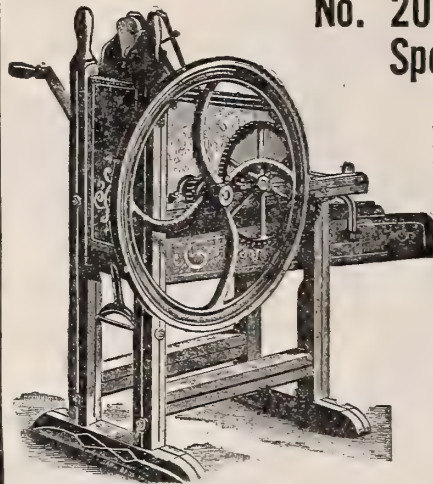
ONE HOLE
No. 4.

Screens corn; side delivery; light running; strong, steel shafts. Capacity, 125 bushels a day. 130 pounds.

Price, \$15.00

THE BALTIMORE SHELLERS

No. 20 Double Spout



This sheller is built very strong from the best materials, and has a combination fly-wheel and pulley.

Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels.

Weight, 300 lbs.

No. 20,
with Shaker,
Price, \$35.00.

"BLACK HAWK"
CORN SHELLER

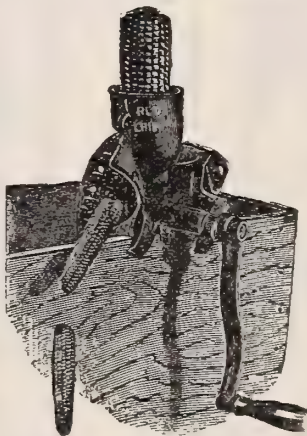
Weight, 14 lbs. Shells Fast, Clean and Easy.

Black Hawk is simple, easily adjusted and will shell clean all kinds of field corn.

Price, each,
\$3.00.



RED CHIEF CORN SHELLER



This sheller is guaranteed to do good work. It is heavy in construction, with patent oval-shaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjusts itself to any size ear.

Price, each.....\$2.75
Weight, 12 pounds.

Black Hawk



Grist Mill

Black Hawk Feed and Grist Mill

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. Weight, 17 pounds.
Price.....\$3.50

No. 20 RED CHIEF GRINDING MILLS

COMBINED HAND AND POWER MILL.

No. 20—Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per day. Has no equal.

Our Special Price.....\$19.00

All burrs are as hard as can be made, and all of our mills will grind in a satisfactory manner dry bone, oyster shells, old china, etc. New Feed Gauge enables the operator to grind fine without mill turning hard. New Burrs will grind fine and quick.



No. 20

RED CHIEF
GRINDING MILLS

No. 1—For Small Poultry Raisers. Price.....\$3.50

No. 2—Best Crank Mill on earth. Feed gauge to regulate grinding. Price.....\$5.00

No. 5—With large capacity, feed gauge and fly wheel. Clamps to box. Price.....\$9.00

No. 10—With feed gauge, fly wheel and handsome stand to screw on table. Price.....\$8.50

No. 12—Best Hand Mill on Earth; bronze boxes, steel axle, large fly wheel. Price.....\$14.00

No. 15—Power Mill for one-horse engine; strong, durable and easy running. Price..\$14.00



No. 77.
Straight
Spout.
Bent Spout.
No. 77

Price each
15c

These oil cans are made from Cold Rolled Steel and have Clock Spring Steel Bottoms.



OIL CANS

No. 620.
Copperized
Steel Mow-
ing Machine
Oilier.

No. 620.
Bent or
Straight
Spout.

Price each
25c



Copperized Steel Oilers

Made from high-grade cold rolled steel, with guaranteed clock spring bottoms; seamless drawn steel bodies (collar included), all one piece; heavy rolled threads; bottom double seamed and rolled. Heavy electro copper plated, 1 1/2-inch wide mouth opening.

No.	Size	Lgt.	Spt.	Price
12	1 1/4 pt.	3 in.		15c.
13	1 1/2 pt.	3 in.		20c.
14	1 3/4 pt.	9 in.		25c.
15	1 pt.	3 in.		30c.
16	1 pt.	9 in.		35c.



No. 06-Y

HUSKING PINS

No. 06-Y—Large muleskin finger cot protected with steel washers from wear. Mounted on cold rolled steel pin, nickel-plated, with two compartment finger strap and buckle adjustment 25c.

No. 7-Y—Same as 06-Y, with cot more open between the fingers. Grain leather 25c.

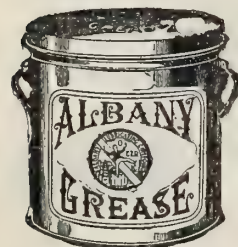
No. 41—Heavy, narrow steel pin, nickel-plated, with extra large elk leather shield covering the ends of the fingers or laced to form a finger cot, with divided finger strap to support knuckle. Sliding ring, making three compartments, and buckle adjustment 30c.

No. 100-Y—Cold rolled steel, 4 1/2 inches, nickel-plated pin, with split leather shield and double compartment, adjustable finger strap 15c.

No. 00X—Clark's "Hickory" Pin, 4 1/2 inches long, made of best cold rolled steel, with one compartment 10c.

No. 2800—Small, round handle that will not cut fingers and on which the front and back brace swing in and out of plane with each other when fingers open and close, preventing blisters. Perfect fit for every hand. Set rigid for any size. Heavy steel, nickel-plated 20c.

Albany Grease or Hard-Oil



Every grease cup, axle cup and ball and roller bearing on your car should be filled with Albany Grease regularly. If you want a finely running car, with no danger of bearings burning out, always use Albany Grease. In the Spring, Fall and Winter use No. 0 or No. 1. In the Summer use No. 3 or No. X to secure best results. Albany Grease is packed in 5-10 pound cans.

5-lb. pkgs. \$1.25
10-lb. pkgs. 2.50

MICA AXLE GREASE



This is the highest quality of Axle Grease and contains ground mica, which forms a coating on the axle and makes a perfectly smooth surface. After this surface is formed you need use only half as much Mica as of any other axle grease.

Tin Box.....	\$0.15
3-lb. Pail.....	.40
10-lb. Pail.....	1.00
25-lb. Pail.....	2.15

GRITCO AXLE GREASE

1 lb.	\$0.15
10 lbs.	1.20
25 lbs.	2.25

HARVESTER

1-gallon cans	\$.85
5-gallon cans	4.00

Household Lubricant Oil

This very fine oil is put up in small oil cans, 1/2-pint sizes, very convenient to use. It is especially adapted for use on sewing machines, lawn mowers, hinges and locks.

1/4-pint cans \$0.20

G. & T. CO'S PERFECTION SEPARATOR OIL

This oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

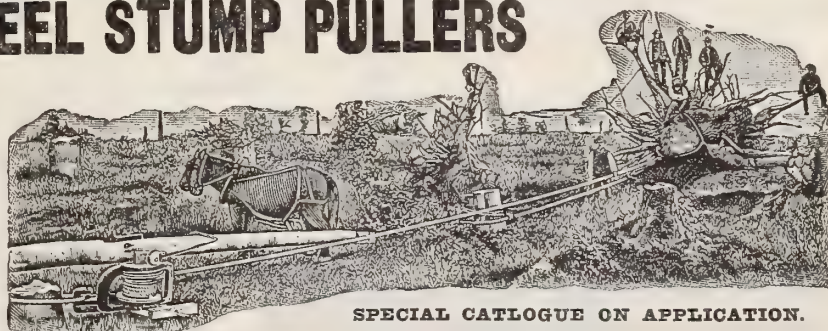
1-quart can	\$0.40
1/2-gallon can .....	.75
1-gallon can	1.25
5-gallon can	5.00

MONARCH STEEL STUMP PULLERS

Monarch Stump Pullers embody in their construction special features which make them the strongest and most efficient machines for such work. The heavy, solid, one-piece main frame, the grooved drum, the drum clutch, the high-grade cable and other features place the Monarch Stump Pullers in a class to themselves. Special catalogue fully describing these features mailed free on application.

If interested in Stump Pullers, wire for our catalogue of the Monarch line, which is very complete and useful; also let us know how much stumpy land you have, the kind of soil, the kind and size of stumps, how close to the ground they are cut and whether they are green or dead. your work. ALL PRICES F. O. B. FACTORY.

- No. 4—Monarch Steel Stump Puller, 75 feet 3/4-inch pull cable, 10 feet 3/4-inch anchor cable. Weight, 675 pounds. **Our Price** \$160.00
- No. 5—Monarch Steel Stump Puller, 75 feet 3/4-inch pull cable, 12 feet 3/4-inch anchor cable. Wt. 875 lbs. \$222.00
- No. 6—Monarch Steel Stump Puller, 75 feet 1-in. pull cable, 12 feet 1-in. anchor cable. Wt. 1075 lbs. \$260.00
- No. 7—Monarch Steel Stump Puller, 75 feet 1 1/2-inch pull cable 15 feet 1 1/2-inch anchor cable. Weight 1450 pounds. **Our Price** \$410.00
- No. 4—Cam Take-Up, with 10 foot 3/4-inch cable and steel cable hook. Wt. 50 lbs. \$27.00
- No. 4—Double Power Pulley, 12 feet 1-inch cable and steel cable hook. Wt. 65 pounds. \$33.00



SPECIAL CATALOGUE ON APPLICATION.

This information will enable us to recommend the equipment most suitable for

MONARCH BESSEMER STEEL STUMP HOOKS.

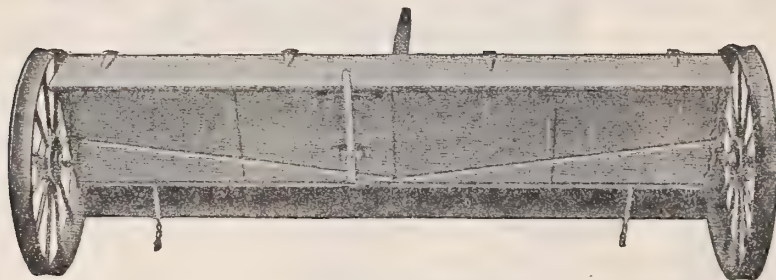
No. 4—Regular Mesquite Stump Hook, for use with No. 2, No. 3 and No. 4 Mighty Monarch Stump Pullers; used extensively for heavy brush hedge, palmetto, mesquite and old stumps. Weight 65 pounds. **Price, \$25.00.**

No. 7—Medium Mesquite Stump Hook, for use with No. 5 and No. 6 Mighty Monarch Stump Pullers; for heavy stumps and heavy mesquite, etc. Weight 85 pounds. **Price, \$32.00.**

No. 8—Giant Mesquite Stump Hook, for use on No. 7 Mighty Monarch Stump Pullers or on large double, triple and quadruple power outfits for extra heavy work where no other stump hook will stand the strain. Weight 160 pounds \$57.00

Gritco Broadcast

Lime Distributor



Lime Sower—Rear View

Note—Truss Rods, Self-Aligning Bearings, Right and Left Lever Throw for Broadcasting or Top Dressing

The cut-off slide moves easily in a groove in the cast-iron bottom plates. When the cut-off lever is moved to right, all the feed holes are open for broadcasting. When the lever is moved to left of center, three holes only are open for drilling. Box is full eight feet long; holds about ten bushels; will sow from 200 to 4,000 lbs. per acre, depending on condition and kind of fertilizer.

AXLE—1½-inch cold rolled steel; has renewable bearings which are self-aligning. This prevents undue wear and lightens the draft. The distributors or feed wheels are fastened directly over the feed holes. Each distributor has five prongs. A steel agitator rod runs through the feed wheels, keeping fertilizer well mixed and preventing clogging or binding above the feed.

End castings are slotted, so that the clearance between distributors and feed plates can be adjusted. This and the large five-pronged distributors are exclusive features and assure an even distribution of any quantity of material, in any condition. Oats, barley and similar grains can be broadcasted, as proper adjustment of scatter-board will insure even seeding on a windy day.

Wheels are all steel, with wide concave tires to prevent sliding on side hill. They operate the axle with the universally used ratchet drive.

This Lime Sower is cheap only in price. We use the very best material obtainable. The few parts and simplicity of construction enable us to make a superior machine at a reasonable price.

Stock size: 8-foot Box with pole, \$55.00; 6-foot Box with Shafts, \$55.00; Doubletrees and Yoke, add \$3.40.

THIS CUT REPRESENTS OUR THREE-SECTION LAND ROLLER

Heavy iron brackets to support the bearings and which entirely surrounds them. An additional feature of this roller is the blocking in of the frame under the pole with a 4-inch hardwood block. This construction gives the roller perfect rigidity and absolutely springing of the steel frame when turning around, crossing dead furrows, etc. It is further braced with steel braces from the frame to the pole, which not only adds strength to the roller, but prevents breaking of the pole.

The drums are 24 inches in diameter, made from extra heavy hard steel sheets. The ends are made from pressed steel and fitted with heavy cast bearings which allows each roll to turn independently.

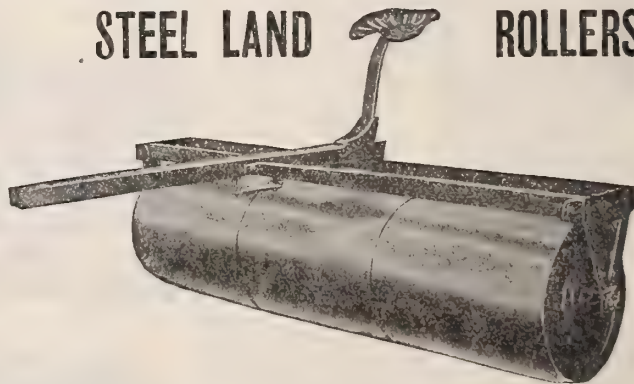
The shaft is 1½-inch high carbon steel.

	Sections	Length feet	Diameter inches	Weight lbs.	Special Price.
No. 105½	2	8	24	550	\$40.00
No. 106½	3	8	24	585	42.50

Price does not include Doubletrees and Neck Yoke.

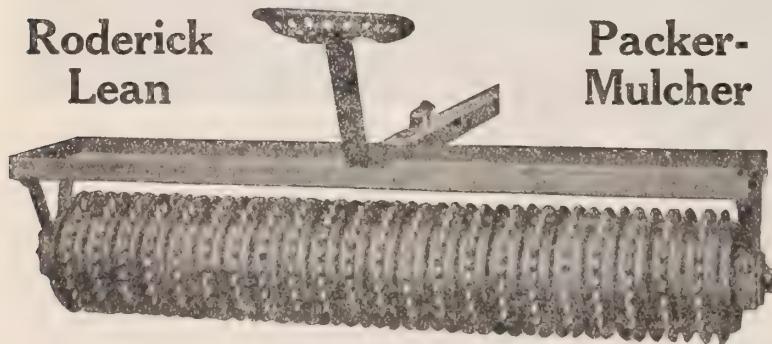
Doubletrees and Neck Yoke.....\$3.40

STEEL LAND ROLLERS



Roderick Lean

Packer- Mulcher



SINGLE-SECTION MACHINES MADE IN FOLLOWING SIZES:

8-ft., Weighing	975 lbs.	\$58.00
10-ft., Weighing	1168 lbs.	75.00

The RODERICK LEAN is built with 15-inch Packer Wheels mounted on a 2-inch steel axle. Each Solid Packer Wheel has a 1-inch extension upon its hub, and on these extensions are mounted the Spike Wheels. These Spike Wheels are loosely mounted with one inch play at the hub.

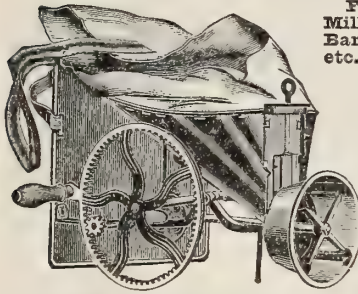
The Steel Stub Pole is attached UNDER the weight pan, leaving inside of weight pan unobstructed for the use of long iron rails or bars if additional weight is required.

End Brackets are in one piece, bolted entirely around the oil-soaked maple bearings, which gives a rigid construction.

The discs upon a RODERICK LEAN PACKER all revolving freely upon the axle, a square turn can be made without dragging ground. The loose Spike Wheels in a Roderick Lean Packer, prevent clogging in moist ground and this keeps the machine rolling freely and guarantees light draft.

The Solid Disc Wheels pack the soil, close air pockets and press the ground close around the fertilizer and vegetation which has been plowed under, thus causing it to become more quickly available for plant food.

Cahoon's Broadcast Seed Sower

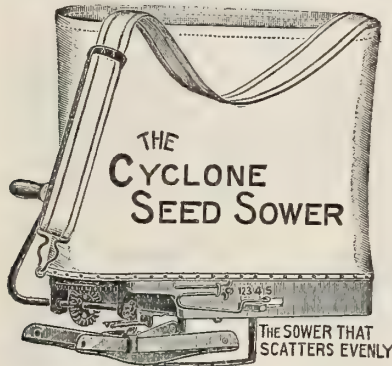


PRICE, \$5.00

For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 ft. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet. Parcel post weight, 8 lbs.

The Original Improved Cyclone

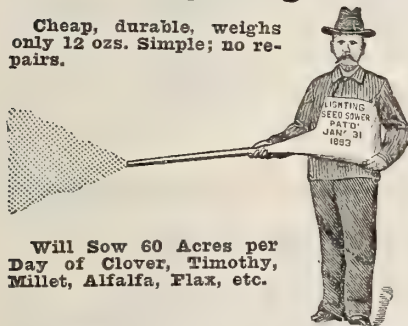


THE SOWER THAT SCATTERS EVENLY

It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly. Parcel Post weight, 6 lbs. PRICE, \$2.25.

Lightning Seed Sower

Cheap, durable, weighs only 12 ozs. Simple; no repairs.



Will Sow 60 Acres per Day of Clover, Timothy, Millet, Alfalfa, Flax, etc.

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it strikes the ground.

PRICE, \$1.00. Parcel Post wt., 1 lb.

Meeker Smoothing Disc Harrow



Steel Disc, A perfect Harrow and Land Roller Combined.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 68 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake.

Our Special Price.....\$33.50

Thompson's Clover and Grass Seeder

Sows 14 to 16 feet Wide, Any Amount Desired Per Acre. Will

Sow 20 to 25 Acres Per Day.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order.



Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier, when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

Rope Feed Seeder

It is strong, yet weighs but 40 pounds.

No. 1—14-foot, single hopper, \$14.00

No. 1—16-foot, single hopper, .15.00

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, \$17.00.

Thompson's Royal Clover and Grass Seeder

These Seeders are similar to the Thompson above, except they have Chain Feed.

No. 11—14 ft., single hopper.....\$14.00

No. 11—16 ft., single hopper..... 15.00

No. 12—14 ft., double hopper..... 17.00

No. 10—10 ft., double hopper, Universal Seeder for all grass seeds, grain, cow peas and soy beans..... 18.00

Thompson's Golf Special Seeder

Golf greens, fairways and lawns must be seeded evenly to produce the desired uniform turf.

Thompson's Golf Special Seeders are used on America's leading golf courses and private estates because they are speedy, accurate and economical. Wind or mud do not interfere with their accurate work because they sow close to the ground and cannot clog.



For a large amount of ground to cover we suggest two or three of these Seeders, providing the job of seeding needs to be done quickly just when the ground is in the right condition to receive the seed.

No. 106 SEEDER, 10-ft. HOPPER complete; wt. 60 lbs..\$20.00

OLIVER CHILLED WALKING PLOWS No. 40-N SERIES

This series of chilled walking plows were first introduced by James Oliver, the inventor of chilled metal. They are popular with farmers everywhere because of their durability and quality of work. The mouldboard is so shaped that it thoroughly pulverizes the furrow slice. The shares extend to the top of the mouldboard in front renewing the shin of the plow with each new share. Because of their chilled construction these plows will wear for many years even in sand and gravel land.

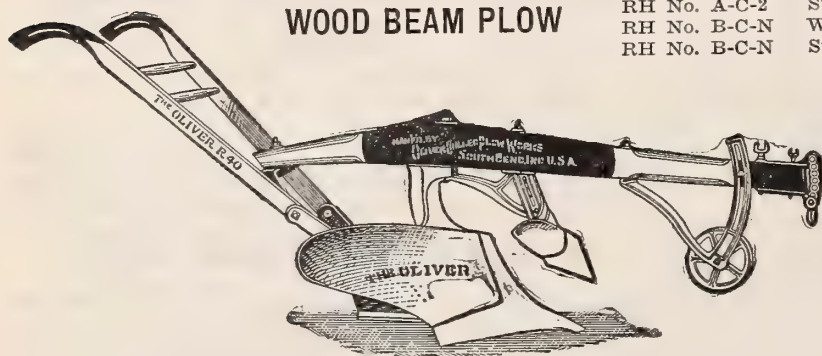


STEEL BEAM PLOW

Number	Description	Capacity	Price
RH No. 10-N	Wood Beam, Chilled.....	5½"x11"	\$16.00
RH No. 13-N	Wood Beam, Chilled.....	6"x11"	18.00
RH No. 19-N	Wood Beam, Chilled.....	6½"x12"	19.50
R&L No. 20-N	Wood Beam, Chilled.....	7"x13"	21.00
R&L No. E-1-N	Wood Beam, Chilled.....	7"x14"	24.00
R&L No. 40-N	Wood Beam, Chilled.....	9"x16"	24.00
LH No. 40-XX	3-Horse Wood Beam, Chilled.....	9"x16"	27.00
R&L No. 10-N	Steel Beam, Chilled.....	5½"x11"	16.00
RH No. 13-N	Steel Beam, Chilled.....	6"x11"	18.00
RH No. 19-N	Steel Beam, Chilled.....	6½"x12"	19.50
R&L No. 20-N	Steel Beam, Chilled.....	7"x13"	21.00
R&L No. 40-N	2 or 3-Horse St'l B'm, Chilled.....	9"x16"	24.00

Oliver Chilled Walking Plows A and B Series

The Oliver A and B chilled walking plows are small, one and two-horse plows particularly suited for small farms, gardens, orchards and vineyards. They are very popular for use in soils containing sand, grit or gravel. The mouldboards are so shaped as to thoroughly pulverize the furrow slice. The points are wedge-shaped.



WOOD BEAM PLOW

Number	Description	Capacity	Price
RH No. 6	Steel Beam, Chilled.....	4½"x 8"	\$8.25
RH No. A-C-2	Wood Beam, Chilled.....	4½"x 9"	10.00
RH No. A-C-2	Steel Beam, Chilled.....	4½"x 9"	10.50
RH No. B-C-N	Wood Beam, Chilled.....	5"x10"	12.00
RH No. B-C-N	Steel Beam, Chilled.....	5"x10"	12.75

**ALL PLOWS ARE PRICED
WITHOUT WHEEL AND
JOINTER**

Oliver Chilled Walking Plows Nos. 83-N and 84-N

The Nos. 83-N and 84-N are general purpose plows designed for use under a variety of conditions, such as work in sod, clay, sandy land, and extreme stony land or shale. Rigid and well braced construction prevents breakage.

Number	Description	Capacity	Price
R&L No. 83-N	Steel Beam, Chilled or Comb.....	7"x14"	\$21.50
R&L No. 84-N	Steel Beam Chilled or Comb.....	8"x16"	24.50

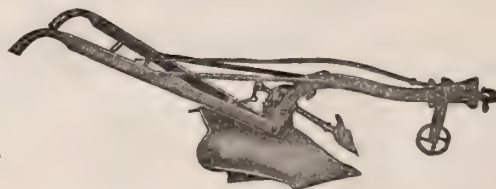


Oliver Hillside Plows Nos. 512, 513 and 524

These are heavy and strongly built, reversible bottom plows. The bottoms are easily and quickly reversed and are held in place by a spring latch. A shifting clevis can be used for correcting line of draft.

Number	Description	Capacity	Price
No. 512	Truss Beam, Chilled.....	8"x13"	\$27.00
No. 513	Truss Beam, Chilled.....	8"x15"	28.00
No. 524	I-Beam, Chilled.....	8"x15"	23.75

Extra chilled share is regular equipment.



Genuine Oliver Plow Repairs and Attachments

CHILLED SHARES FOR WALKING PLOWS

No. 6	\$.23
Goober	.23
A Plain	.25
AC-DS	.30
B	.30
BC	.42
E	.70
3-X-DDS	1.05
10	.45
13	.55
19	.60
20	.65
24	1.55
40	.70
40-XX Medium	1.00
82	.85
83-10-inch	.95
83-11-inch DDS	.95
84-12-inch DDS	.95
508	.90
512	.90
509-524	.95
513-524	.95

OLIVER SLIP NOSE SHARES

A	\$.45
B	.45
10	.60
13	.70
19	.75
E—Right Hand only	.85
20	.80
40	.85

BOWER SLIP NOSE SHARES

20	\$.75
40	.80
82—Right Hand only	.95
83-84—Right Hand only	1.05

CHILLED REVERSIBLE SLIPS

A	\$.10
B	.15
10-0	.15
13	.15
19	.15
20	.15
3-X	.15
40	.15
E	.15

CHILLED SHARES FOR RIDING PLOWS

NC-23—16-inch QD	\$2.05
NC-23—14-inch QD	1.60
NC-23—12-inch QD	1.40
83—11-inch DS	.95
83-84-88—12-inch X DS	.95
84-88—12-inch DDS S	.95

REVERSIBLE WINGS

98	\$.55
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REVERSIBLE SLIPS

No. 99-X Oliver	\$.25
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STANDARDS

	Steel Beams	Wood Beams
No. 6	\$1.50	
Goober	2.25	
No. A-2	2.65	2.90
No. AC-2	2.25	2.80
No. B	2.50	3.15
No. BC	2.35	3.20
No. 10	3.00	3.20
No. 13	3.25	3.55
No. 19	3.25	3.95
No. 20	3.50	4.15
No. E		4.50
No. 40	3.75	4.70
No. 40-XX		6.50
No. 82	4.75	
No. 84	4.80	
No. 88	5.40	
Tractor	7.50	

CHILLED MOULDBOARDS

No. 6	\$1.45
Goober	1.50
A-2-4 Hole	1.60
AC-2	1.60
B or B-N	2.05
BC or BCN	2.05
E-1	3.75
3-X	5.80
10-N	2.25
13 or 13-N	3.00
19-N	3.25
20	3.40
24	6.35
40	3.75
40-XX	4.25
83-N	4.50
84-N	5.00
91-N	5.50
98	4.75
99	5.00
508	4.95
509	5.50
512	3.75
513	4.10
524	4.10

CHILLED LANDSIDES

No. of Plow	Part No.	Price
No. 6	F-1110	\$.50
Goober	F-1283	.65
A-WB	F-1264	.55
A-SB	F-1263	.55
AC-WB	F-1266	.55
AC-SB	F-1265	.55
B-WB-DF	S-271	.75
B-SB	F-1270	.75
BC-WB	F-271	.75
BC-SB-DF	F-325	.75
E-WB-DF	F-297-R—F-298-L	1.10
3-X	F-1300-R—F-1301-L	1.60
10-SB	F-1224-R—F-1223-L	.80
10-WB	F-1226-R—F-1225-L	.80
13-SB	F-1230-R—F-1229-L	.95
13-WB	F-1232-R—F-1231-L	.95
19-WB-DF	F-432-R—F-431-L	1.00
19-SB-DF	F-444-R—F-443-L	1.00
20-WB-DF	F-448-R—F-449-L	1.05
20-SB-DF	F-462-R—F-463-L	1.05
24-IB	F-1244	1.60
40-WB-DF	F-484-R—F-483-L	1.10
40-SB-DF	F-494-R—F-495-L	1.10
82-N-SB-DF	F-715-R—F-7012-L	1.45
83-N-SB-DF	F-682-R—F-683-L	1.45
84-N-SB-DF	F-682-R—F-683-L	1.45
88-N-SB-DF	F-682-R—F-683-L	1.45
F-926-A	Tractor Land Long	1.60
F-905	Tractor Land Short	.70
91-N-SB	F-683	1.45
98-3-H	F-1310-R—F-1309-L	1.45
98-DF-3-H	F-2575	1.45
99-3-H-DF	F-2576-R—F-2577-L	1.45
508-509-TB	.GY-300	1.10
512-513-TB	.GY-300	1.10
524-IB	.GY-310	1.10

WOOD BEAMS

	Price
A-B-10-13	\$3.85
19-20-E-40-40X	4.15
40XX	4.95

CLEVISES

Wood Beam—	Price
A	\$.35
B	.90
D	1.25
Steel Beam—	
No. 2	.95
No. 90A	1.40
No. 4-91	1.65

WOOD HANDLES (Single)

No. 1 R & G, each	\$1.20
All others, each	.85
Handle Rounds, each	.10
Sets, all numbers up to 13	2.20
Sets, all numbers above 13	2.75
(State if old or new style handles)	

WHEELS

No. 11—1-H. Str. Standard for A, AC, B, BC and 10 WB Plows	\$1.65
No. 12—2-H Str. Standard for 82, 83, 84 and 91 SB Plows	1.95
No. 18—1-H, Str. Standard for A, B, 10 and 13 SB Plows	1.95
No. 20—2-H, Brace Standard for 19, 20, E, 40, 40X and 98 WB plows	2.50
No. 72 Universal Brace Standard for 19, 20, 40 and 40X SB Plows	2.20
No. 508 Str. Standard for 512 and 513 Plows	1.65
No. 524 Wheel for No. 524 Plows Standards, one-horse, straight	1.10
Standards, two-horse, all kinds	1.80
Wheels only, one-horse	.55
Wheels only, two-horse	.85
Hubs	.35
Center pins or hub bolts	.05

Note—In ordering wheels, say if for right or left-hand, wood or steel beam plows.

CHILLED JOINTERS

	Price
No. 60 for 10-13 WB Plows, R or L	\$3.60
No. 61 for 10-13 SB Plows, R or L	3.85
No. 63 for E, 19, 20, 40 and 40X WB Plows, R or L	4.40
No. 181 for 19, 20, 40 and 40X SB Plows R or L	4.95
Jointer Points, chilled, all numbers	.35
Jointer Mouldboards	.60
1-horse Jointer Holders, Steel Beam	.80
Wood Beam	1.60
2-Horse Jointer Holders, Steel Beam	1.60
Wood Beam	1.95
One-horse Jointer Standards	1.20
Two-horse Jointer Standards	1.60

HILLSIDE PLOW REPAIRS

Plow Nos.	Chilled Mouldboard	Steel Mouldboard	Standards	Land-sides	Chilled Shares	Set Handles
512	3.75	9.10	6.25	1.10	.90	3.30
513	4.10	9.10	6.25	1.10	.95	3.30
524	4.10	9.10	8.25	1.10	.95	2.75

BOLTS

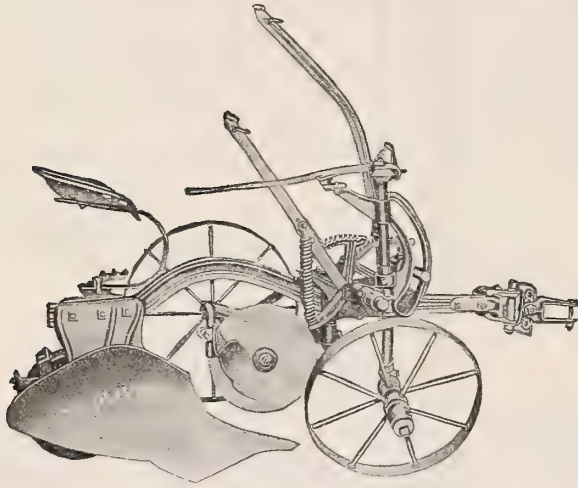
For shares, mouldboards and landsides, jointer and coulter standard No. 5, end of handle brace, each.....\$.05

For jointer and coulter holder, No. 6, wheel standards, straight, end or beams, wheel hub, No. 14-A clevise bolts, Nos. 20 and 40 steel beam and land-side bolts, No. 99 S. B. jointer holder bolts, each..... .10

For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2½, each..... .15

Wheel hook bolts..... .15
Cast Washers Are Not Included in Prices for Bolts

JAMES OLIVER NO. 11 SULKY PLOW



This sulky is the most popular plow of its kind ever built. It is used on tens of thousands of farms throughout the world and is unequalled for simplicity, lightness of draft, ease of operation and above all, field performance. Turns square in-and-out corners with the bottoms cutting full width and depth. Furnished in both right and left hand.

Regularly equipped with steel evener and No. 90 Chilled Jointer. No Weed Hook.

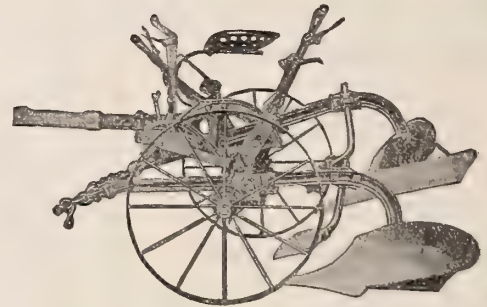
	Price
Right Hand—All Chilled—12-inch.....	\$61.25
Right Hand—All Chilled—14-inch.....	62.25
Left Hand—All Chilled—14-inch.....	62.25
For tongue and neckyoke, add.....	3.45
For combination rolling coulter and jointer, add.....	3.45
For chilled jointer instead of plain rolling coulter,.... deduct.....	1.90
For plain rolling coulter add.....	1.10
Weed Hook, with Clamp.....	1.10

OLIVER NO. 23-A REVERSIBLE SULKY PLOW

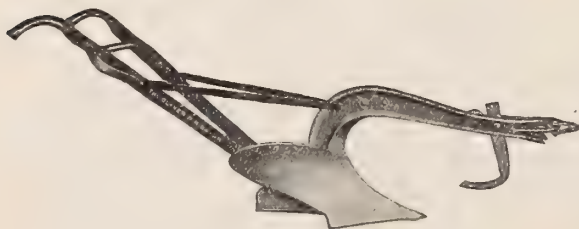
Great strength, ease of operation and quality work are advantages of this two-way sulky. A heavy frame and beams give the great strength needed for plowing in stumpy and stony land. There is a wide range of pole shift to keep the plow cutting full width on hillsides. A horse lift put in operation by a foot trip when walking makes operation easy. A simple adjustment adapts this plow for use with two or three horses.

Regularly equipped with two and three horse steel evener, tongue, neckyoke, weed hooks and chilled jointer.

No. 23-A—All Chilled—12-inch.....	Price \$104.00
No. 23-A—All Chilled—14-inch.....	105.90
For plain rolling coulters, add.....	2.20
For combination rolling coulters and jointer, add.....	7.00



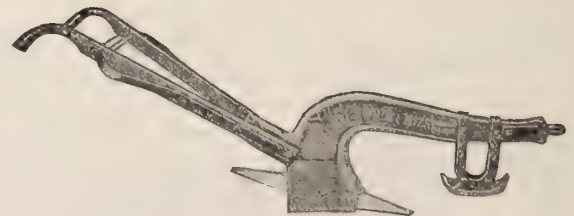
Oliver No. 24 Grading Plow



An extremely strong iron beam plow for road breaking, excavation work or the heaviest of field work. The beam standard and frog are one piece. This plow has a chilled mouldboard and a deep suck cutter share.

No. 24—Iron Beam, equipped with a gauge iron, Price, \$33.95

Oliver No. 25 Pavement Plow

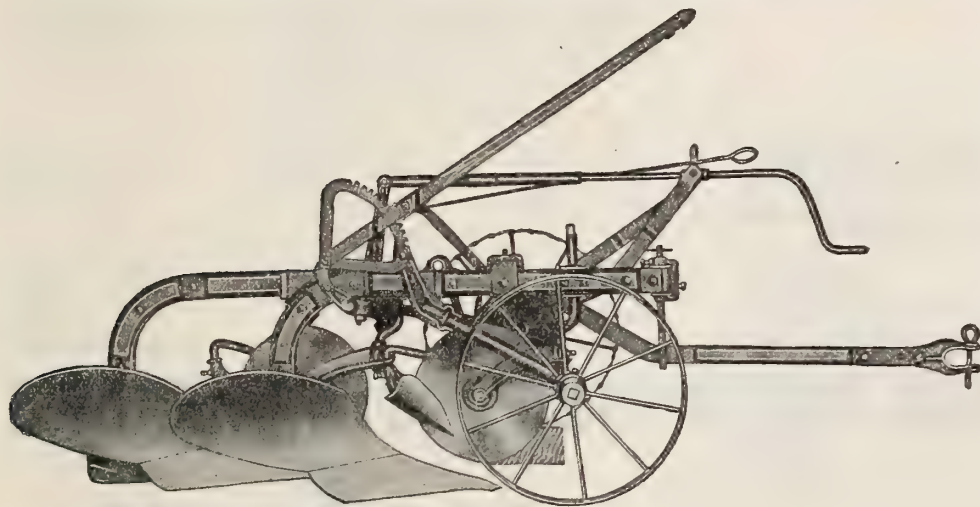


A popular plow for tearing up macadamized roads, streets, gravel roads, etc. Built extra strong and rigid, the beam standard and handle braces are cast in one piece. The pick is both reversible and adjustable. All wearing parts are renewable.

Regularly equipped with a gauge iron.

No. 25—Pavement Plow.....	Price, \$40.00
Reversible Steel Point or Spike.....	Price, 4.75

OLIVER No. 9-XX ADJUSTABLE TRACTOR PLOW



The Oliver No. 9-XX adjustable plow can be set so that the bottoms will cut 11", 12", 13" or 14". When the ground is hard and plowing is difficult the bottoms can be set to cut narrow; when plowing conditions are favorable they can be set to cut at full width, or 14" per bottom. The adjustment is made by expanding or closing the frame.

An Easily Operated Plow

A powerful, ball-bearing screw control so multiplies human effort that it makes depth adjustment rapid and easy. It is an action almost without effort to pull the trip rod for raising and lowering the plow bottoms. The handy leveling lever is another advantage. Adjusting plowing depth, pulling the trip rod and leveling the bottoms—it is all done rapidly and easily.

A Trip Rod for the Power Lift

The use of a trip rod eliminates troublesome work with

a trip rope. Moreover, the trip rod is always in the same place convenient to the operator. Only a slight pull is necessary to put the dependable power lift into action for raising and lowering the bottom. Note another advantage of this plow which is the position of the wheels to carry the weight of the plow, eliminating drag weight and lessening draft.

The Ball Bearing, Depth Adjusting Screw

The ball-bearing depth adjusting screw is an exclusive Oliver feature found only on Oliver tractor tools. It has a wide range of adjustment and plowing depth can be changed with the outfit moving or standing to suit different soil conditions. For instance when the outfit strikes a soft, boggy spot or the bottoms encounter an obstruction, a few turns of the screw will raise the bottoms. The load on the tractor is removed and the outfit moves forward, without loss of time.

The Draw Bar

The draw bar is fastened well back on the frame at the center of draft and is adjustable up and down and sidewise so that it is possible to secure just the correct line of draft and the right degree of penetration

The Advantage of Great Clearance

The Oliver No. 9-XX has unusual clearance under the bottoms and between the bottoms. This is a decided advantage when plowing under high weeds, corn stalks, wheat stubble, etc.

Price.....\$90.00

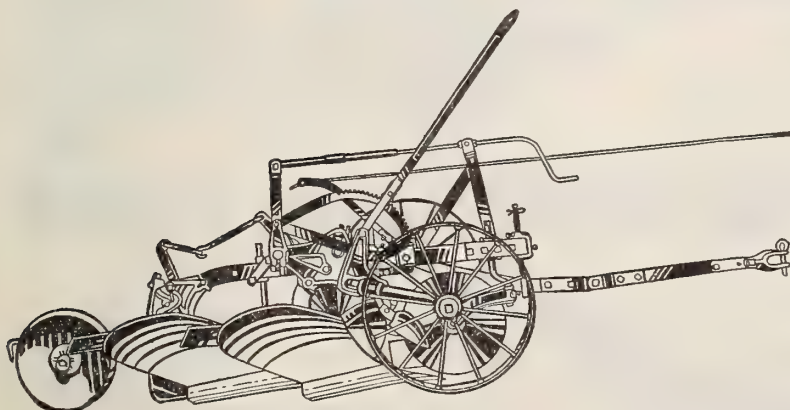
THE OLIVER No. 218 AXX GANG PLOW

A FINE GENERAL PURPOSE PLOW

Owners from all sections of the country tell us that the No. 218 AXX is "the all purpose plow." You, too, will like the way the big bases turn and pulverize your soil, putting all trash down where cultivation does not drag it to the surface. Tall sweet clover, standing or fallen corn stalks, rank weed growth, heavy stubble and trash—they all look alike to the No. 218 AXX. It is a wonder under such difficult conditions and just as remarkable under ordinary plowing conditions. Built to do every job of plowing easier—better—faster; that is the story of the Oliver No. 218 AXX.

UNUSUAL CAPACITY—You won't be bothered with clogging, even in the heaviest growths.

WIDE ADJUSTABILITY—The plow for any plowing job. Adjustable to cut 14, 15, 16, 17, 18 and 19-inch furrows.



HEAT TREATED STEEL CONSTRUCTION—PROVIDES GREAT STRENGTH

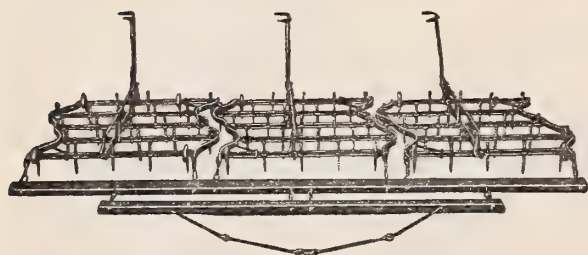
Strength and ruggedness are assured by heat treating the beams, beam braces, axles and the trip shaft on the dependable power lift. This treatment insures against bent and sprung beams, keeps the frame rigid and the bottoms running true. Extra strong wheels and a heavy power lift fit the No. 218 AXX for years of satisfactory service.

OLIVER DIAL HITCH HAS MANY ADVANTAGES

The dial hitch on this new plow is attached to the middle of the plow frame and is adjustable up and down and sideways, thereby making it possible to maintain a perfect line of draft at all times. It has a flexible joint that allows the plow to follow uneven surfaces without being held rigid by the tractor.

No. 218 AXX—With 14 or 16 inch Chilled Base.....\$132.50
No. 218 AXX—With 18 inch Chilled Base.....\$138.75

OLIVER UBC SPIKE TOOTH HARROW



The Oliver UBC harrow is a very strong, closed-end harrow. The side rails furnish extra strength and act as guards when working among trees or vines. Furnished with either horse or tractor hitch.

HORSE HARROW

Regularly equipped with evener bar

Number	Description	Price
UBC—50-Tooth	2-section	\$19.65
UBC—60-Tooth	2-section	22.15
UBC—75-Tooth	3-section	31.15
UBC—90-Tooth	3-section	35.15

TRACTOR HARROW

Regularly equipped with a tractor hitch

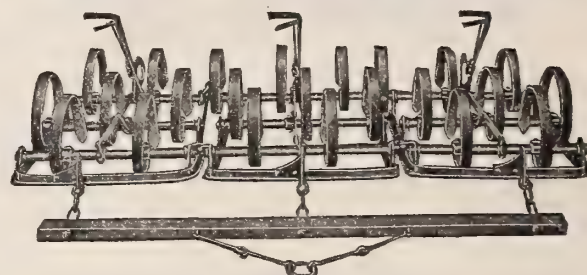
Number	Description	Price
UBC—90-Tooth	3-section	36.20

OLIVER PB AND PBV SPRING TOOTH HARROWS

These are very strong and rugged implements well fitted for the hard work of spring-toothing. An inverted T-bar frame shod with a thick steel runner gives great strength and durability. The PB series are ordinary field harrows; the PBV are for vineyard and orchard use and fitted for that work by special levers which do not extend above the harrow when it is in working position. Furnished with horse or tractor hitch. The levers are reversible and are set on the rear of the sections for horse use and on the front for tractor use.

HORSE HARROWS

9-Tooth, with handles and single-tree.....	\$16.00
15-Tooth, 2-section with draw bar.....	23.70
17-Tooth, 2-section with draw bar.....	25.40
23-Tooth, 3-section with draw bar.....	35.70
25-Tooth, 3-section with draw bar.....	37.25



Oliver PB 3-section Horse Harrow

TRACTOR HARROW

21-Tooth, 3-section with draw bar and tractor hitch.....	\$40.95
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Note: PB and PBV Harrows are the same price

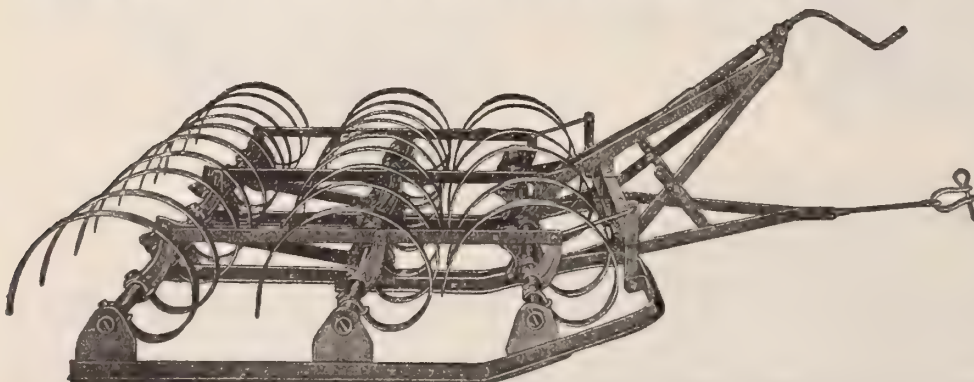


Oliver PB 3-Section Tractor Harrow



Oliver PBV Vineyard Harrow

OLIVER TPB TRACTOR SPRING TOOTH HARROW



This harrow is leverless. A handy and quick-acting screw is used to raise and lower the teeth and to regulate depth of penetration. The inverted T-bar frame is equipped with a heavy steel runner $\frac{3}{4}$ inches thick. The hitch is adjustable so that the harrow will run level under all conditions. TPB—25-Tooth, 3-section

Price\$52.00

OLIVER HDH DISC HARROWS—SINGLE AND DOUBLE

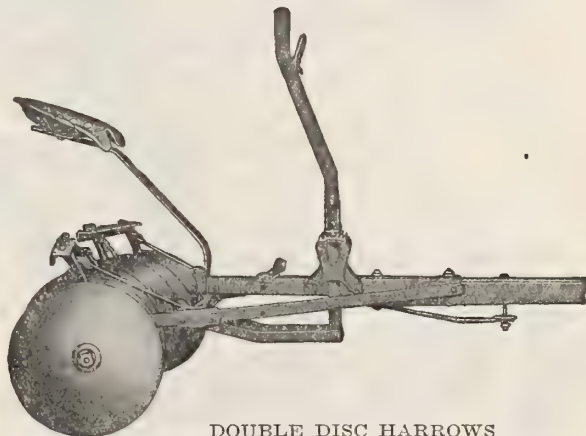
No other farm tool equals the disc harrow for quick and efficient seed bed preparation. These harrows penetrate easily because the pull of the draw bars is downward. The construction at each wearing point is especially durable.

SINGLE DISC HARROWS

Regularly equipped with hard oil cups, rigid scrapers, 2 or 3-horse evener, seat and rigid pole.

Number	Number of Discs	Cut in Feet	Size of Discs	Price
HDH-4	8	4	16 in.	\$42.50
HDH-5	10	5	16 in.	46.50
*HDH-6	12	6	16 in.	51.25
HDH-4	8	4	18 in.	45.60
HDH-5	10	5	18 in.	50.35
*HDH-6	12	6	18 in.	58.85

(*) Equipped with off-set irons and 3-horse eveners.

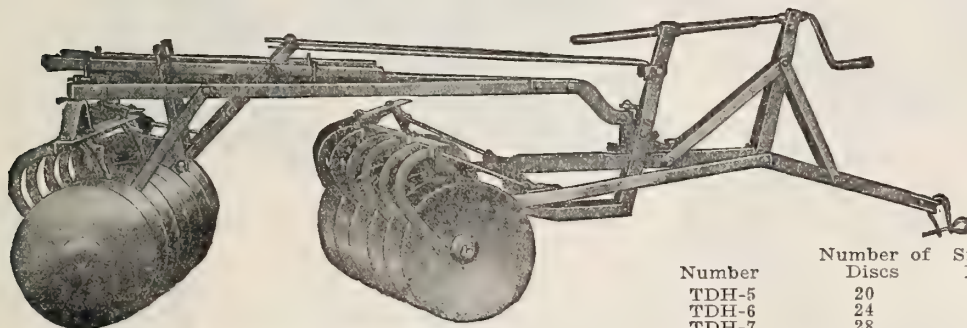


DOUBLE DISC HARROWS

Consists of single disc harrow and tandem complete, hard oil cups, rigid scrapers, 4-horse eveners, seat and forecarriage.

Number	Number of Discs	Cut in Feet	Size of Discs	Price
HDH-4	16	4	16 in.	\$97.50
HDH-5	20	5	16 in.	105.40
HDH-6	24	6	16 in.	111.25
HDH-4	16	4	18 in.	103.75
HDH-5	20	5	18 in.	113.15
HDH-6	24	6	18 in.	120.60

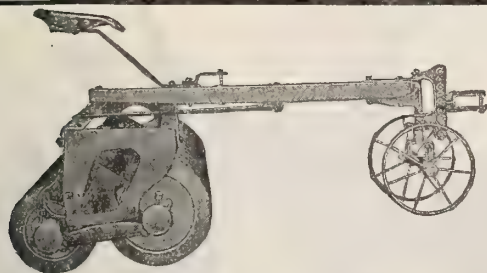
OLIVER TDH TRACTOR DISC HARROW



A tractor harrow that is noted for its durability and its quality of work. This harrow digs because the pull of the draw bars is downward. Easily operated from the tractor seat by means of a handy, quick-acting screw.

Number	Number of Discs	Size of Discs	Cut in Feet	Price
TDH-5	20	16 in.	5	\$88.50
TDH-6	24	16 in.	6	95.30
TDH-7	28	16 in.	7	106.90
TDH-8	32	16 in.	8	120.00
TDH-5	20	18 in.	5	96.25
TDH-6	24	18 in.	6	106.25
TDH-7	28	18 in.	7	118.00

Harrows Can Be Furnished with 20-inch Discs at Additional Cost.



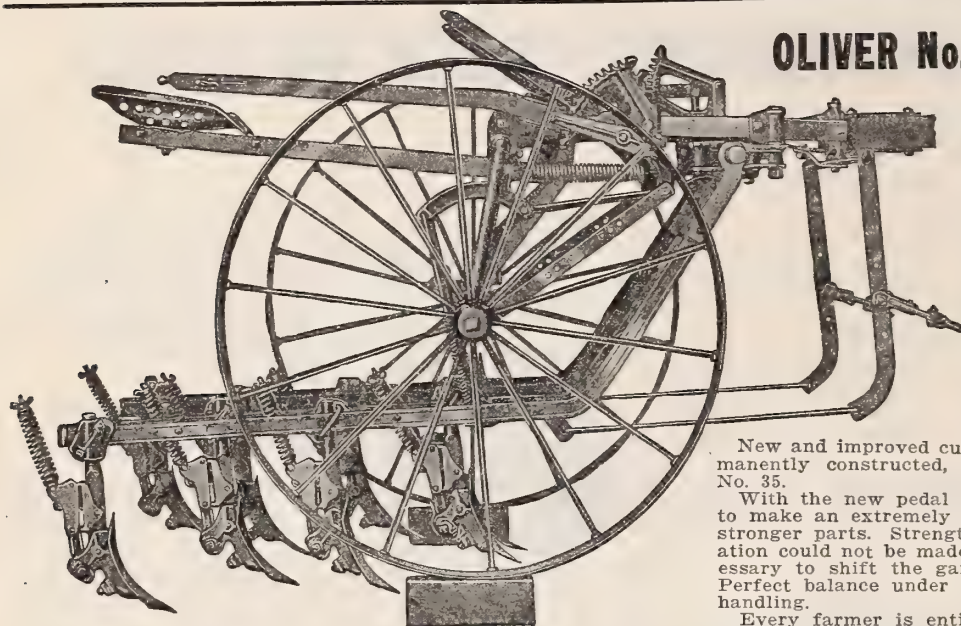
Equipped with a horse hitch

OLIVER ROLLER PULVERIZER

The Oliver roller pulverizer crushes clods and firms the soil. It leaves the soil in shape to receive and retain moisture. By using the pulverizer directly after the disc harrow it leaves the ground in good shape for planting. Also used to good advantage to firm the soil about the roots of growing plants. The weight is automatically shifted to the front or to the rear gangs as it is needed. Easily converted from a horse to tractor pulverizer.



Number	Length Over All	Actual Rolling Width	Number of Wheels	Price
NTP-7 Tractor	7'	6'-1"	37	\$75.65
NTP-8 Tractor	8'	7'-1"	43	82.40
NTP-10 Tractor	10'	9'-1"	55	103.15
NHP-6 Horse	6'	5'-1"	31	72.25
NHP-7 Horse	7'	6'-1"	37	82.80
NHP-8 Horse	8'	7'-1"	43	89.50



OLIVER No. 35 CULTIVATOR

This cultivator is built short and sturdy and the hitch is close and direct. The gangs extend back only a short distance beyond the wheels. This eliminates dipping and side-slipping and assures uniform work when going into depressions or over slight rises in the ground. The gang heads work on a heavy steel bar. This wide bearing gives great durability and rigidity. It is an extremely simple and advantageous feature and does away with any possibility of the gangs getting out of alignment. In the single-piece, heat-treated axles there are no weak parts to break or wear loose.

New and improved cultivator, better designed, more permanently constructed, easier operated—it is the Oliver No. 35.

With the new pedal guide construction it was possible to make an extremely simple cultivator using fewer and stronger parts. Strength to spare, and in addition, operation could not be made easier, so small is the effort necessary to shift the gangs or to make field adjustments. Perfect balance under all conditions adds to the ease of handling.

Every farmer is entitled to have his cultivating work done easier. With the Oliver No. 35 it can be done both easier and better.

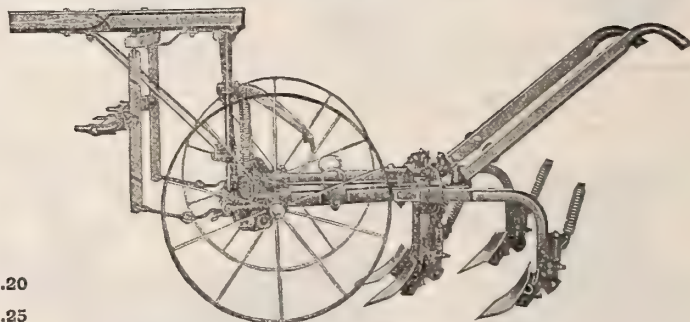
No. 35 6-shovel, pin break gangs.....	\$54.60
No. 35 6-shovel, spring trip gangs.....	60.40
No. 35 8-shovel, pin break gangs.....	56.70

No. 35 8-shovel, spring trip gangs.....	\$64.50
Front Disc Attachment 12".....	3.90
Tobacco Hoe Attachment.....	10.50

OLIVER No. 2 IMPROVED CULTIVATOR

A popular and well established favorite where either large or small acreages of cultivated crops are raised. Easy on the man because of the great ease with which it is handled. Lifting the gangs or shifting them to or from the row is an action almost without effort. Easy on the horses because of light draft and there is no neck weight. There is not a single unnecessary part; there is nothing to get out of order.

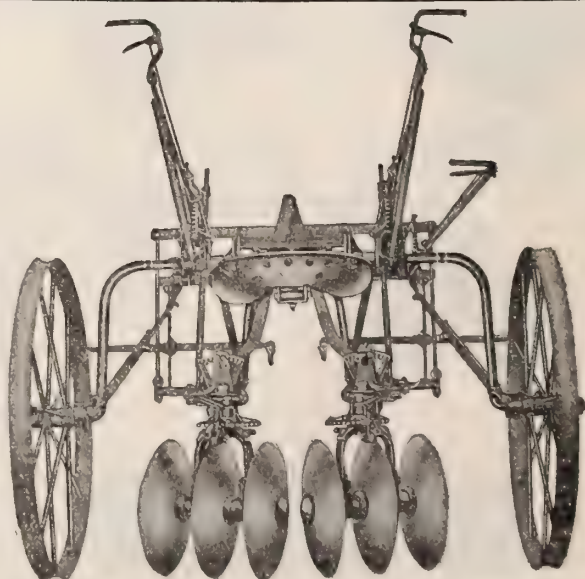
No. 2 FEC Imp. 6-shovel, spring trip gangs, Pipe Beam.....	\$49.20
No. 2 FO Imp. 4-shovel, spring trip gangs, Pipe Beam..	45.25
No. 2 HO Imp. 6-shovel, pin break gangs, Pipe Beam...	43.25
No. 2 LPO Imp. 8-shovel, pin break gangs, Channel Beam	40.30

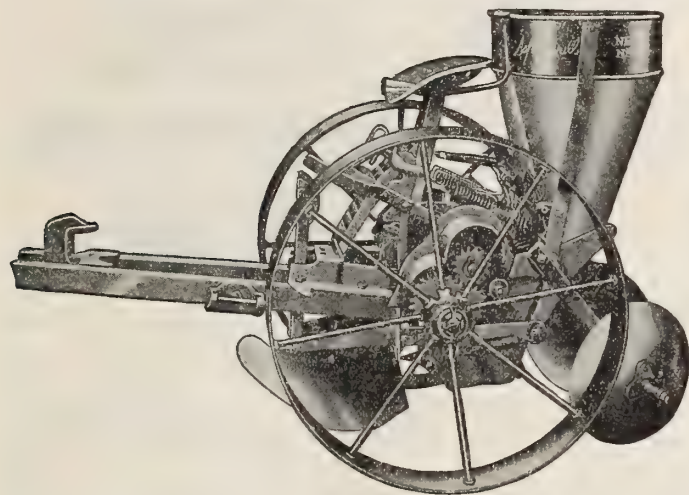


OLIVER NO. 25 CULTIVATOR

This is a light draft, easily operated and durable disc cultivator. It is equipped with the famous Oliver seat guide which pivots on ball and roller bearings, assuring easy shifting of the gangs. Good work can be done on hillsides and in crooked rows. The disc gangs swivel at two points. Adjustments are made without a wrench and without leaving the seat. The disc can be set to cultivate deep or shallow and as close to or far away from the row as desired. They are reversible for barring off or for throwing dirt to the row. Individual levers set the cultivating depth of each gang independently. The action of the main lever balances the cultivator.

No. 25 Cultivator, with 16" Disc gangs.....	Price \$72.50
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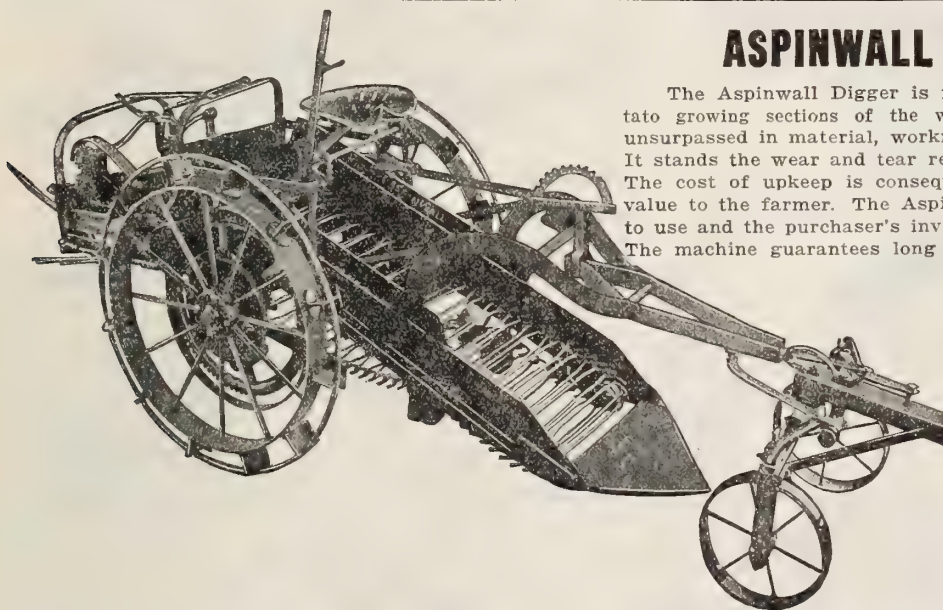


NEW ASPINWALL No. 5 POTATO PLANTER

About forty years ago, Mr. L. A. Aspinwall introduced the Automatic Potato Planter. The agricultural world was startled. Potato planting by hand was tedious, inaccurate and uncertain. Mr. Aspinwall's efforts were doubted at first, but were soon greeted with widespread enthusiasm and recognition. His Potato Planter proved its practicability, was developed and grew better and better. In 1921 the New Aspinwall No. 5 was invented. This is indeed the most perfect potato planter ever built—it leads everything in the field—and has made potato planting a science—is absolutely accurate in every degree at an immeasurable saving of time and labor.

The improvements in the pickers and concaves have made such excellent results possible—the misses have been reduced to about one in a thousand potatoes, with uniform properly cut seed.

No. 5 Plain Planter.....	\$105.00
No. 5 Planter with fertilizer attachment.....	136.00



ASPINWALL POTATO DIGGER

The Aspinwall Digger is favorably known throughout the potato growing sections of the world enjoying high prestige as it is unsurpassed in material, workmanship, serviceability and long life. It stands the wear and tear required from a machine of this type. The cost of upkeep is consequently low, which alone is of great value to the farmer. The Aspinwall Digger is the economic digger to use and the purchaser's investment in it is one of profit to him. The machine guarantees long service. The lightness of draft for which the Aspinwall Diggers have become so well known is in a large measure directly attributed to our system of bearings. The gear drive is the simplest, most powerful and efficient transmission of power for digger purpose on account of the short distance from center to center axle.

6-Foot Digger.....	\$135.00
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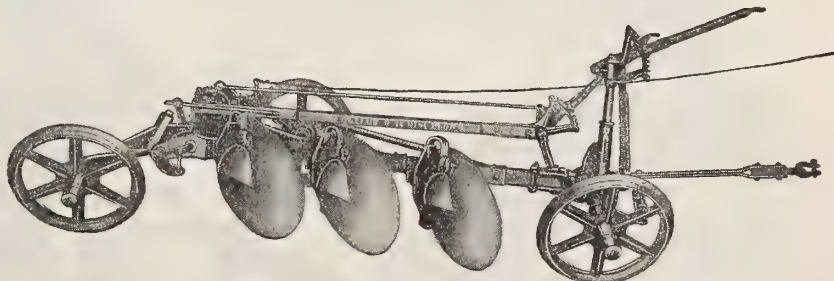
OLIVER TRACTOR DISC PLOWS

In conditions of extremely hard ground in tough, waxy land where mouldboards will not scour, in fields with buried logs or other obstructions, Oliver tractor disc plows solve the plowing problem.

Advanced design overcomes the objectionable features commonly found in disc plows. In using Oliver disc plows you will be greatly pleased with their satisfactory work.

A power lift that operates on all three wheels, raising all discs to a high, level position, ability to penetrate and stay in hard ground at full depth, strength for the most difficult conditions, ease of operation, free running discs, durable disc bearings, disc brackets that afford good clearance when plowing full depth, new design, mouldboard shape disc scrapers that turn the soil with a pulverizing effect, increasing the quality of the plowing—these are a few of the features of Oliver disc plows that guarantee complete satisfaction.

Oliver tractor disc plows have established a new standard for disc plow service, proving their superiority in public demonstration as well as on farms



Oliver D-43 Tractor Disc Plow

	Price		Price
D 42—2—24 in. Discs.....	\$132.75	D 43—3—24 in. Discs.....	\$153.50

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

WHITE'S CLIPPER PLOW

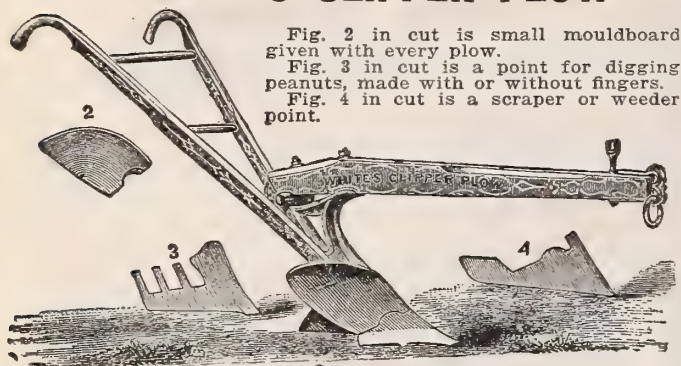


Fig. 2 in cut is small mouldboard given with every plow.
Fig. 3 in cut is a point for digging peanuts, made with or without fingers.
Fig. 4 in cut is a scraper or weeder point.

Prices Clipper Plow and Extras.

No. 1 and 2, Cast, One-Horse.....	\$ 6.00
No. 12, Cast, Two-Horse.....	10.75
Cast Point for Clipper Plow, per pound.....	.03

STEEL BEAM MIDDLE BURSTER

SHARES FOR MIDDLE BURSTER

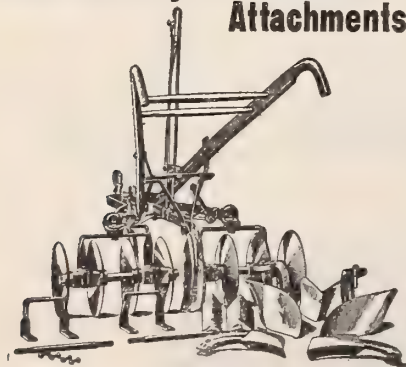
Cuts	Our Special Price.
8-inch	\$1.65
10-inch	1.70
12-inch	2.00
14-inch	2.15
16-inch	2.35

The Beam has a high throat, and wings are shaped especially for black, waxy lands. Wings and points are of high carbon steel. Points have reinforced nose. A strong, serviceable tool for two, four or six horses.

We can furnish them as follows:

Cuts	Our Special Price.
Cuts 8 inches; weight 77 pounds.....	\$12.25
Cuts 10 inches; weight 82 pounds.....	13.00
Cuts 12 inches; weight 87 pounds.....	13.75
Cuts 14 inches; weight 83 pounds.....	14.50
Cuts 16 inches; weight 98 pounds.....	16.25

Frank Beasley's Patent Disc Attachments

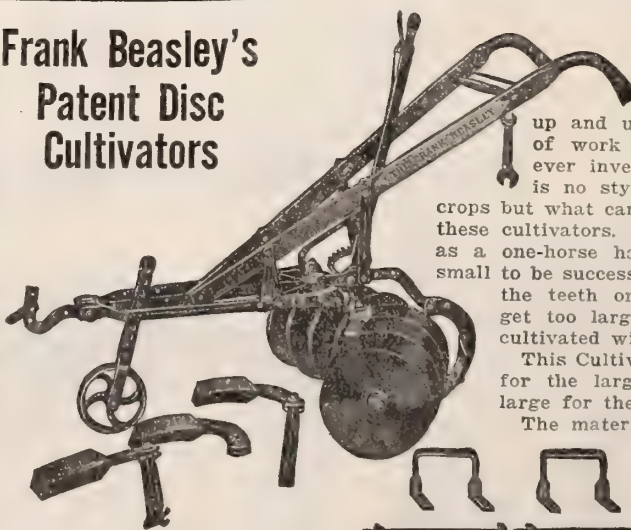


TO FIT ANY FIVE-TOOTH CULTIVATOR

If you have a good five-tooth cultivator, you can secure these parts to attach to same and make your old cultivator as up-to-date as it would be possible to have it. These Disc Attachments come in gangs of either six or eight Discs or can be had in combination of six and eight discs.

These disc gangs are sometimes used on Fertilizer distributors with fine results. Six-Disc Attachment, Weight 43 lbs. \$3.75
Eight-Disc Attachment, Weight 53 lbs. 10.75
Comb. Six and Eight Disc Attachment..... 12.00

Frank Beasley's Patent Disc Cultivators



There are thousands of them now in use, all giving satisfaction.

The Disc attachments are sold separately, as listed opposite.

Six discs go between rows 2½ feet wide and up; Eight discs between rows 3½ feet wide and up.

Price Complete, as shown in cut, including 4-tooth standards and teeth, and combination set discs (meaning 8 discs and extra parts for changing to use six or less at a time).....\$25.25.

Farmers' Friend Plow



PRICES GENUINE FARMERS' FRIEND PLOW.

No. ½.....	\$5.65	No. 1 Hillside.....	\$8.25
No. 5.....	\$5.65	No. 2 Hillside.....	8.25
No. 7 R.....	7.75	No. 3 Hillside.....	8.50
No. 7 L.....	8.15		
No. 7½ R.....	8.15		
No. 8 R. and L., with clevis.....	9.50		
Plain Castings, per lb., 8c.		Polished Castings, lb., 9½c.	

"BOY" DIXIE PLOW

"Boy" Dixie.....	\$4.50
No. X.....	5.75
No. I.....	6.00
No. II.....	8.25
No. 2.....	9.00
Plain Castings, per lb., 8c.	

"GIRL" CHAMPION PLOW

No. "Girl".....	\$6.00
No. A.....	6.50
No. 2.....	7.00

Castings, per lb., Plain,
8½c.; Polished, 10c.

Old Dominion Grub Plow



TWO-HORSE...\$12.50

THREE-HORSE 14.00

COULTERS.... 3.50

BOTTOMS..... 6.25

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches.

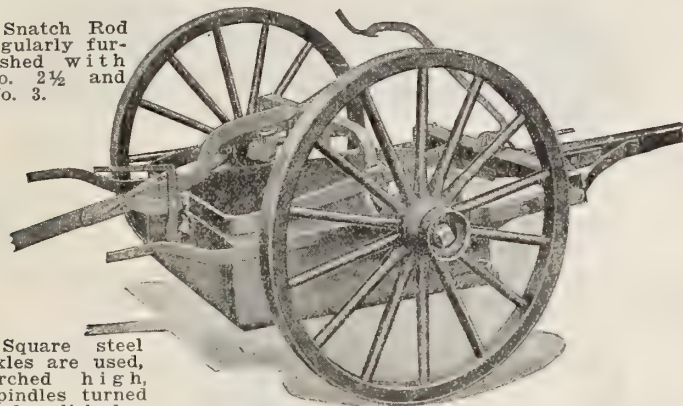
One of these Cultivators (with the extras that can be used on same) can be set up and used for more styles of work than any cultivator ever invented. In fact, there is no style cultivating among crops but what can be done better with these cultivators. It can also be used as a one-horse harrow. No crop too small to be successfully cultivated with the teeth or shovels, and never get too large to be successfully cultivated with the discs.

This Cultivator is not too small for the largest grower, not too large for the smallest grower.

The material used is the highest grade, nicely finished and painted, and guaranteed to work as represented.

Snatch Rod regularly furnished with No. 2½ and No. 3.

Square steel axles are used, arched high, spindles turned and polished.



AMERICAN WHEEL SCRAPERS

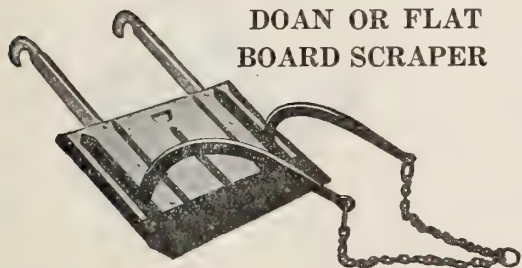
These scrapers are very popular with the contractor trade on account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongue, best quality hardwood, heavily ironed, with double steel draft bars.

		Height of		Axle
		Size of Bowl	Wheels Tires	
		in. in.	in. in.	in.
No. 1	— 9 Cu. Ft.	35x34½x11½	36 2¾x¼	1¾
No. 2	—13 Cu. Ft.	37x38 x13½	40 3 x%	1¾
No. 2½	—14 Cu. Ft.	41x38 x13½	44 3 x%	1¾
No. 3	—16 Cu. Ft.	41x44 x16	46 3 x¾	1¾

No. 1	—Weight, 450 lbs.	Price, \$73.00
No. 2	—Weight, 600 lbs.	Price, 92.00
No. 2½	—With Snatch Rod, weight 700 lbs.	Price, 97.00
No. 3	—With Snatch Rod, weight 750 lbs.	Price, 105.00

Wood Doubletrees and Neck Yoke, \$6.00 extra.

DOAN OR FLAT BOARD SCRAPER



For making Ditches, Embankments and Back Filling. Strongly built and well balanced. Blade is extra heavy, wide and ground to a cutting edge. Width 50 inches. Weight 85 pounds. Price.....\$14.00

AMERICAN ROUND BACK SOLID PRESSED DRAG SCRAPER



Size	Prices with 2 Steel Runners		Price
	Capacity	Weight	
No. 1	7 cu. ft.	97 lbs.	\$10.65
No. 2	5 cu. ft.	86 lbs.	10.25
No. 3	3 cu. ft.	76 lbs.	9.80

For Extra Bottom Plate add \$1.00.

LIGHT DRAG SCRAPER

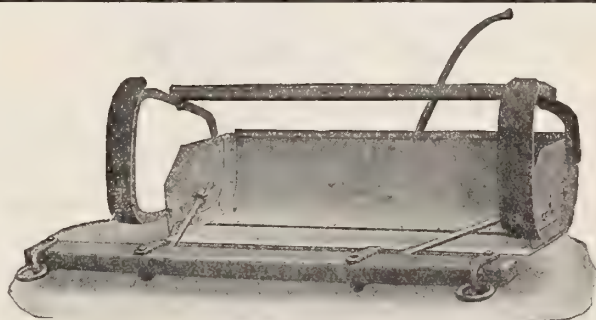
Size			Price
	Capacity	Weight	
No. 1	7 cu. ft.	86 lbs.	\$9.50
No. 2	5 cu. ft.	72 lbs.	9.25
No. 3	3 cu. ft.	67 lbs.	9.00

AMERICAN FRESNO SCRAPERS

Contractors that are not acquainted with the **AMERICAN FRESNO SCRAPER** are overlooking one of the best tools ever designed for moving earth rapidly and cheaply.

With this scraper dirt can be carried any distance and dumped in bulk, or it can be scattered in layers from one to twelve inches deep simply by adjusting two tail nuts on the cross bar; no wrench required.

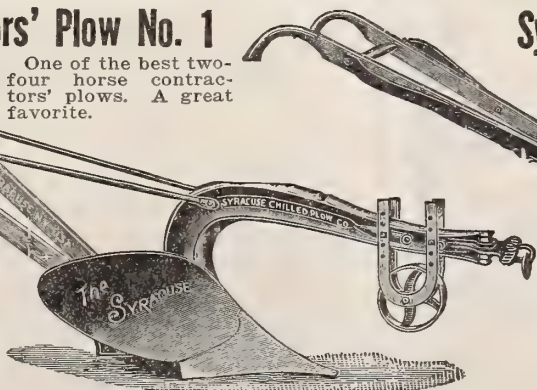
Three Sizes	Width	Weight	Price
No. 1—4-Horse	5 -ft.	315 lbs.	\$36.00
No. 2—2 or 4-Horse	4 -ft.	277 lbs.	34.00
No. 3—2-Horse	3½-ft.	250 lbs.	33.00



Syracuse Contractors' Plow No. 1

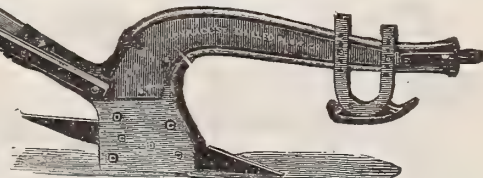
One of the best two-four horse contractors' plows. A great favorite.

Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four-horse. Weighs 185 lbs. with wheel, \$32.00. Can furnish with Steel Handles. Extra\$1.50



Syracuse Pavement Plow No. 98

Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted



for tearing cobblestones and macadam pavements. Four or six-horses. Weight, 265 lbs. Without extra point. Price, \$40.00.

SYRACUSE CONTRACTORS' PLOW No. 99
Four to Eight Horses. Weight, with Shoe, 310 lbs. Without extra Share. \$70.00.

Wood Single, Double and Tripletrees



Our line of Single, Double and Tripletrees are the best on the market, CLIP ENDS. Made of second growth hickory, carefully selected and thoroughly seasoned.

26-in. Singletree.....\$.55	34-in. Singletree.....\$.75
28-in. Singletree......60	36-in. Singletree......80
30-in. Singletree......65	36-in. Doubletree..... 1.00
32-in. Singletree......70	40-in. Doubletree..... 1.40
Extra Heavy Tripletree.....\$3.50	

WOOD NECK YOKES

40 inch.....	\$1.60
--------------	--------

WOOD SINGLETREE SETS

One 36-inch Doubletree and two 28-inch Singletrees, with open rings.....	\$2.60
One 36-inch Doubletree and two 30-inch Singletrees, with open rings.....	2.70
One 40-inch Doubletree and two 34-inch Singletrees, with open rings.....	3.25

FULL LENGTH STRAP, WAGON TREE SETS

48-inch Doubletree, 34-inch Singletrees and 40-inch Neck Yoke.....	\$5.20
Wagon Doubletrees, 48-inch, each.....	1.60
Wagon Singletrees, 34-inch, each.....	1.20
Wagon Neck Yokes, 40-inch, each.....	1.60
Double and Singletrees, less Neck Yoke for Rollers, Corn Planter, etc.....	2.00
Double and Singletrees, with Neck Yoke for Rollers, Corn Planters, etc.....	3.60

STEEL SINGLE AND DOUBLETREES

U SINGLE, DOUBLE AND TRIPLETREES

Prices: Singletrees, with Malleable Hooks, 24-inch, 75c.; 26-inch, 80c.; 28-inch, 85c.; 30-inch, \$1.10. Doubletrees, with Hooks, 36-inch, \$1.25. Steel Tripletrees Set, complete per set of 6 pieces, \$6.00.

OPEN SIDE LAP LINKS

Open Side Lap Links, polished, 1/2 x 2 1/2.....	15c.
5/8 x 3.....	20c.
3/4 x 3.....	25c.

SET OF WELDED CLIPS

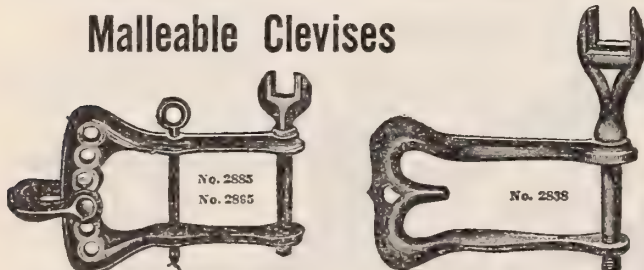
CLIPS FOR DOUBLETREES.

No. 77—Southern; one 5/8-inch Center Clip and Hook, with hook and two 1/2-inch Clips. Set, 60c.
No. 76—Pennsylvania; one 3/4-inch Center Clip and Hook, with 3/4-inch hook and two 9-16-inch End Clips. Set, 70c.

CLIPS FOR SINGLETREES.

No. 75—One Center 1/2-inch Clip, and two 3/8-inch End Clips; used on 28-inch Singletrees. Set, 40c.
No. 74—One Center 9/16-inch Clip, and two 7/16-inch End Clips. Set, 45c.
No. 73—One Center 5/8-inch Clip, and two 7/16-inch End Clips; used on 34 and 36-inch heavy Singletrees. Set, 50c.
No. 72—One Center 3/4-inch Clip, two 1/2-inch End Clips. Set, 60c.

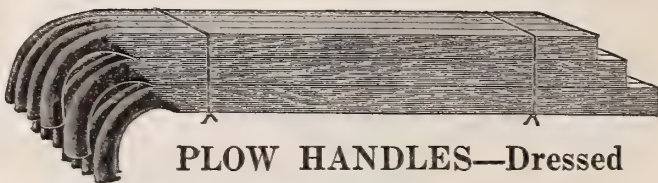
Malleable Clevises



No. 2885.—2 1/4-in. beam; 2 3/4-in. from center of wrench to center of pin; 6 3/4-in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. List price, doz., \$6.00. Retail price, each, 35c.

No. 2806 B—End Clevis.—3/4-in. inside measure; 3-in. extreme length. List price, doz., \$2.00. Retail price, each, 10c.

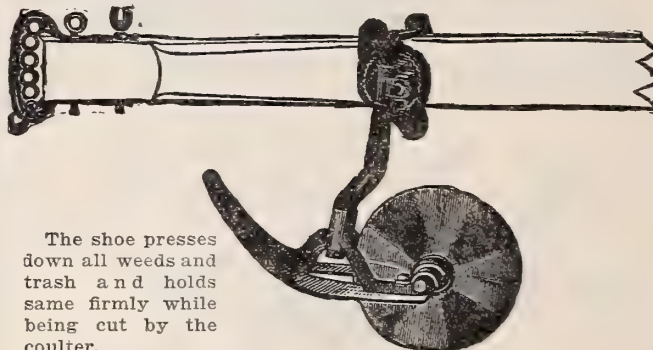
No. 2800—Flow Link.—3-in. long, 2 1/2-in. wide. List price, doz., \$2.00. Retail price, each, 10c.



PLOW HANDLES—Dressed

1 1/2 x 2 inches, 5 feet long, per pair.....	\$.75
1 1/4 x 2 1/4 inches, 5 feet long, per pair.....	.80
1 1/4 x 2 1/4 inches, 6 feet long, per pair.....	1.00
1 1/2 x 2 3/4 inches, 5 feet long, per pair.....	1.20
1 1/2 x 2 inches, Side Bend, per pair.....	.80

“MOON” ROLLING COULTER



The shoe presses down all weeds and trash and holds same firmly while being cut by the coultter.

No. 1—8-inch disk.....	\$5.00
No. 2—10-inch disk.....	6.00
No. 3—12-inch disk.....	7.00

“A. W. R.” One Hoss Riding Cultivator

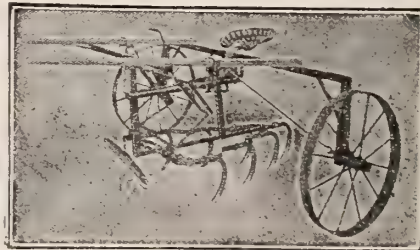
The A. W. R. Cultivator has been thoroughly tried out under varying farm conditions since 1918, and has proven its worth. There are many farms upon which there is too large an acreage of row crops to be handled by a walking cultivator, but where two-horse machines will not work satisfactorily.

While no expense has been spared to make this tool right, the price is very reasonable, especially when you consider that it will do practically the same amount of work as the two-horse machine—do it easier, cheaper and better.

The wheels and cultivator frame are adjustable for width and the depth is easily controlled by a removable key pin.

It will cultivate corn up to three or even four feet high. For those who seed to grass and clover at the last cultivation of corn, this cultivator leaves the ground in perfect condition.

Price of Cultivator.....\$20.00



Repairs For Chattanooga Plows

Nos.	No. Horse.	Plain Shares.	Cutter Shares.	Slip Nose Shares.	Slips.	Landslides.	Mould-boards.
62	1-Horse, W. B.	\$.40	....	\$ .50	\$.10	\$.70	\$2.00
62	1-Horse, S. B.	.40	....	.50	.10	.70	2.00
63	2-Horse, S. B.	....	.60	.75	.15	1.10	3.00
64	2-Horse, S. B.	....	.75	.90	.15	1.25	4.00
65	2-Horse, S. B.	....	.85	1.05	.20	1.50	4.50
66	2-Horse, S. B.	....	.90	1.10	.20	1.50	4.75

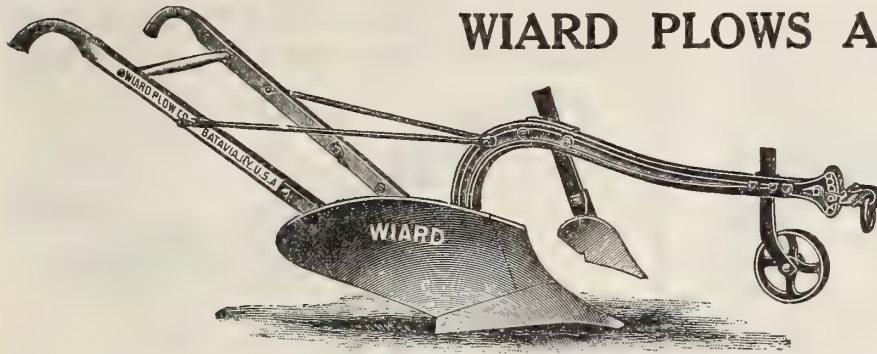
List Price.

Retail Price.

Shovel Plow Clevises, Doz.....\$7.20
Cultivator Clevises, Doz.....4.80

Each, 40c.
Each, 25c.

WIARD PLOWS AND REPAIRS



"WIARD" SWIVEL OR HILL-SIDE PLOW

No. 125—1-Horse with Cast Moldboard	\$16.00
No. 127—Light 2-Horse with Cast Mold, Steel Beam.....	19.00
No. 115X—Light 2-Horse, with Cast Moldboard, Cast Beam..	22.50
No. 126X—2-Horse, with Cast Moldboard, Cast Beam.....	24.00

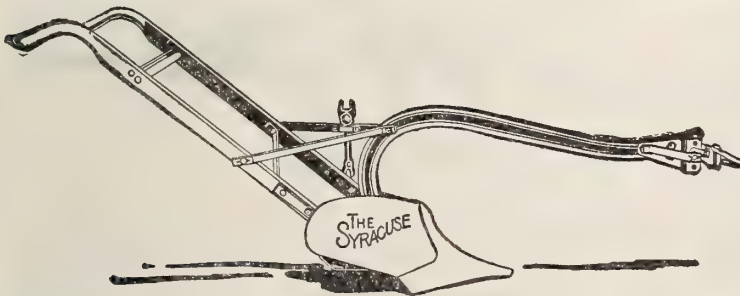
WIARD STEEL BEAM PLOWS AND EXTRAS

No Wood-Beam Plows Carried in Stock

	Capacity, Inches	Weight, Pounds	Price, Plow	Plow with Wheel	Plow with Wheel and Jointer	Plain Shares	Slip Nose Shares	Moulds	Lands	Standards	Shoes for Lands	Shins or Cutters
No. 25—R. H., Cast Beam, Heavy 2-Horse.....	10 to 15	121	\$20.00	\$22.00	\$26.75	.70	.85	\$4.50	\$1.25	...	...	...
No. 44—R. H., Steel Beam, 2 or 3-Horse.....	11 to 15	130	21.50	23.50	28.25	.70	.85	4.50	1.25	4.00	...	...
No. 45—R. H., Steel Beam, 3-Horse.....	12 to 17	150	25.00	27.00	31.75	.75	.85	4.75	1.25	4.50	...	...
No. 90—R. H., Steel Beam, 2-Horse.....	11 to 15	132	22.00	24.00	28.75	.85	1.00	5.00	1.00	4.50	...	...
No. 91—R. H., Steel Beam, 2-Horse.....	10 to 14	128	21.00	23.00	27.75	.85	1.00	4.50	1.00	4.50	...	...
No. 214—R. H., Steel Beam, 1-Horse.....	5 to 10	89	12.75	14.50	...	.40	...	3.00	1.00	2.50	...	...
No. 219—R. H., Steel Beam, Light 2-Horse.....	6 1/2 to 12	110	19.50	21.50	26.25	.70	...	4.50	1.40	3.50	...	...
No. 220—R. H., Steel Beam, 2-Horse.....	7 to 13	120	21.00	23.00	27.75	.70	...	5.00	1.40	3.50	...	...
No. 240—R. H., Steel Beam, 2 or 3-Horse.....	11 to 15	149	24.00	26.00	30.75	.90	...	5.00	1.50	3.75	...	...
No. 522—R. H., Steel Beam, Light 2-Horse.....	7 to 11	111	17.25	19.00	23.75	.70	...	4.00	1.25	3.50	...	...
No. 524—R. H., Steel Beam, 2-Horse.....	9 to 13	122	19.75	21.75	26.50	.80	...	4.50	1.60	4.00	...	...
No. 526—R. H., Steel Beam, 2 or 3-Horse.....	10 to 15	134	21.50	23.50	28.25	.85	...	5.00	1.60	4.00	...	...
No. 80—L. H., Steel Beam, 2-Horse.....	11 to 15	132	22.00	24.00	28.75	.85	1.00	5.00	1.00	4.50	...	...
No. 103—L. H., Steel Beam, Light 2-Horse.....	9 to 13	120	19.75	21.75	26.50	.70	.85	4.25	1.25	4.00	...	...
No. 104—L. H., Steel Beam, 2 or 3-Horse.....	11 to 15	130	21.50	23.00	28.25	.70	.85	4.50	1.25	4.00	...	...
No. 106—L. H., Steel Beam, 3-Horse.....	12 to 17	150	25.00	27.00	31.75	.75	.85	4.75	1.25	4.50	...	...
No. 440—L. H., Steel Beam, 2 or 3-Horse.....	10 to 16	149	24.00	26.00	30.75	.90	...	5.00	1.50	3.75	...	...
No. 544—L. H., Steel Beam, 2-Horse.....	9 to 13	122	19.75	21.75	26.50	.80	...	4.50	1.60	4.00	...	...
No. 546—L. H., Steel Beam, 2 or 3-Horse.....	10 to 15	134	21.50	23.50	28.25	.85	...	5.00	1.60	4.00	...	...
No. 546—L. H., Cast Beam, 2 or 3-Horse.....	10 to 15	160	20.25	22.00	25.75	.85	...	5.00	1.60	...	...	...
No. 548—L. H., Steel Beam, 3-Horse.....	12 to 17	150	25.00	27.00	31.75	.95	...	5.50	1.60	4.50	...	...
No. 548—L. H., Cast Beam, 3-Horse.....	12 to 17	175	23.50	25.25	29.00	.95	...	5.50	1.60	...	...	...

No. 65, R. H., Cast Beam, Contractors' Plow with shoe, \$33.00. Cast Shares, \$1.15. Steel Shares, \$6.50. Moulds, \$5.50. Lands, \$1.75.
Solid or One-Piece Lands for Nos. 43, 44, 103, 104 and 106 Plows, \$1.60.
Share, Mould and Land Bolts, 5c. Wheels, 80c. Wheels complete, \$2.20. Steel Beam Jointers, \$4.75. Jointer Points, 25c. Jointer Moulds, 50c. Single Handles, \$1.10 each. Sets, 2 and 3-Horse Handles, \$2.50.

SYRACUSE PLOWS AND REPAIRS

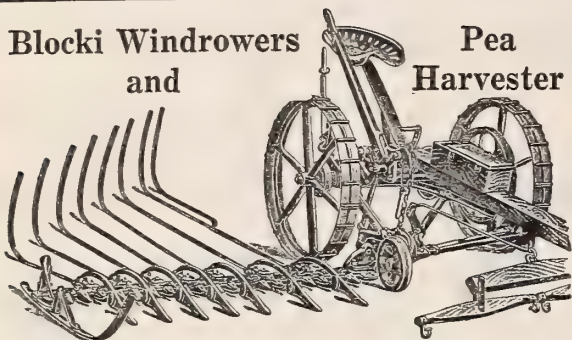


	Plain Plow	Plow with Wheel	Plow with Wheel and Jointer	Plain Shares	Slip Nose Shares	Moulds	Lands
No. 1-78 Regular .....	...	...	...	\$.63	\$.78	\$4.31	\$.97
No. 2-78 .....	...	...	...	.60	.75	4.12	.93
No. 95 .....	...	...	...	.75	.90	4.75	1.45
No. 96 .....	...	...	...	.80	.95	5.00	1.55
No. 97 .....	...	...	...	.85	1.00	5.50	1.70
No. 35 .....	...	...	...	1.10	...	6.25	2.00
No. 502, 362, 1362 .....	...	...	...	.63	.78	5.00	1.50
No. 503, 363, 1363 .....	...	...	...	.63	.78	3.37	1.40
No. 601, 461, 1461 .....	...	...	...	.67	.82	5.50	1.50
No. 602, 462, 1462 .....	...	...	...	.63	.78	5.00	1.50
No. 603, 463, 1463 .....	...	...	...	.63	.78	3.37	1.40
No. X1441 Q. D. Tractor .....	...	...	...	.95	1.10	5.25	...
No. X1442 Q. D. Tractor .....	...	...	...	.90	1.05	4.75	...
No. 702 Hillside .....	...	...	...	.82	...	4.12	1.40
No. 1-78 R. H. Contractor Plow .....	...	...	...	.78	...	5.75	1.55
No. 98 Rooter Pavement Plow .....	...	\$32.00	...	...	...	...	...
No. 99 R. H. All Steel Plow .....	...	40.00	...	5.50	...	...	...
No. 10-78 R. H. Cast Beam Plow .....	...	70.00	...	7.75	...	...	...
No. 20-78 L. H. Cast Beam Plow	\$23.50	25.15	\$28.90	.71	...	4.68	1.08
No. 30-78 L. H. Cast Beam Plow	20.25	21.90	25.65	.63	.78	4.31	.93
No. 501 L. H. Wood Beam Plow	23.50	25.15	28.90	.71	.86	4.68	1.08
No. 1361 L. H. Steel Beam Plow	24.00	25.75	30.25	.67	.82	5.50	1.50
No. 1362 L. H. Steel Beam Plow	24.00	25.65	30.15	.67	.82	4.12	1.12
No. 1461 R. H. Steel Beam Plow	23.00	24.65	29.15	.63	.78	3.75	1.12
No. 1461 R. H. Steel Beam Plow	24.00	25.65	30.15	.67	.82	4.12	1.12
No. 1462 R. H. Steel Beam Plow	23.00	24.65	29.15	.63	.78	3.75	1.12

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Blocki Windrowers and

Pea Harvester



Use the Blocki Windrower for harvesting the seed crops of red, alsyke, mammoth and alfalfa clovers. Sometimes also used for harvesting flax, buckwheat, and even short tangled grain. Is an excellent tool to harvest cow peas, beans, etc. Can be readily attached to any mower and gives the best satisfaction. The guards are strong, being made of malleable iron; the rods retain their shape because they are made out of the right kind of steel.

Blocki Pea Harvester No. 7X consists of 7 Guards, 7 Rods and Divider.

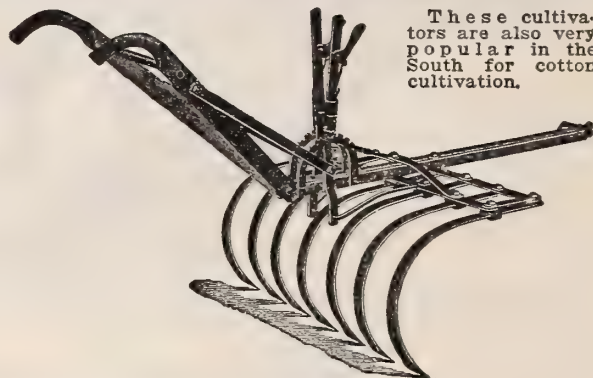
Blocki Pea Harvester No. 8X consists of 8 Guards, 8 Rods and Divider.

Blocki Pea Harvester No. 9X consists of 9 Guards, 9 Rods and Divider.

Prices:

No. 7X.....	\$27.00
No. 8X.....	30.00
No. 9X.....	33.00
Extra Guards, each.....	3.00
Windrower for 4½- or 5-ft. Mower, Rods only..	15.00
Windrower for 6-ft. Mower, Rods only.....	17.00

GRITCO STEEL BEAM DIVERSE CULTIVATORS WITHOUT LEVERS



These cultivators are also very popular in the South for cotton cultivation.

Each, List, \$16.00. Retail, \$10.00.

Fenders for above. List, \$2.00. Retail, \$1.25.

For Reversible Point Teeth, add per cultivator, List, \$1.60. Retail, \$1.00.

Gauge Wheels, List, \$2.00. Retail, \$1.25.

EXTRA TEETH

	List Price	Price
Plain	\$1.20	\$.70
With Reversible Points.....	1.40	.80

SINGLE AND DOUBLE SHOVEL PLOWS

The cost of these goods is not so much in finish as in the construction and material, these being the principal requisites in an implement.

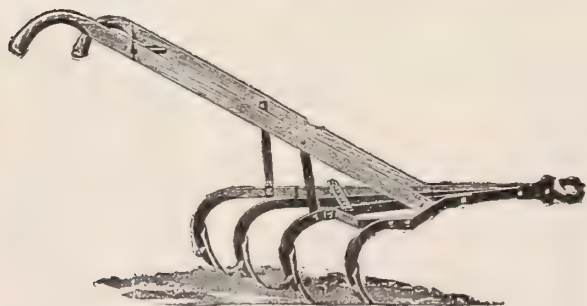
Farmers' Favorite, single-shovel Plow...\$4.00
Farmers' Favorite, double-shovel Plow... 4.60



TRIPLE SHOVEL PLOWS



GRITCO STEEL BEAM FOUR SHOVEL PLOWS



Both the Steel Beam and Wood Beam four-shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

Four Shovel, Steel Beam.....\$7.00

These Triple Shovel Plows, have long handles making them easy to guide. The beams are made from high grade steel and are adjustable to the width of the cut. The shovels are made from High Carbon Steel, sharpened.

Regular Triple Shovel Plow.....\$6.00

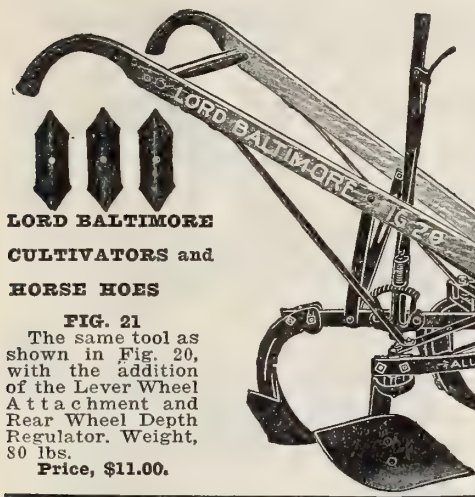
The Original and Genuine "Malta" Iron Beam Single and Double Shovel Plows



PRICE:

Double Shovel Plow.....\$5.00

Single Shovel Plow.....\$4.50



LORD BALTIMORE CULTIVATOR AND HORSE HOE FIG. 20

Equipped with our latest improved **Hollow Pressed Steel Standards, Lever Expander and Outside Handle Braces.** Extra high Steel Frame. Standards are interchangeable, there being no "right" nor "left" as in the solid standards in general use.

The **Horse Hoe Standards** differ from the other three, and take either the regular Cultivator Teeth or Hilling Attachments. They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideways angle desired. Hillers are reversible, and may be used with either point or rounded edge foremost. Weight, 60 lbs.

With
Lever,
Price,
\$9.60.

**LORD BALTIMORE
CULTIVATORS and
HORSE HOES**

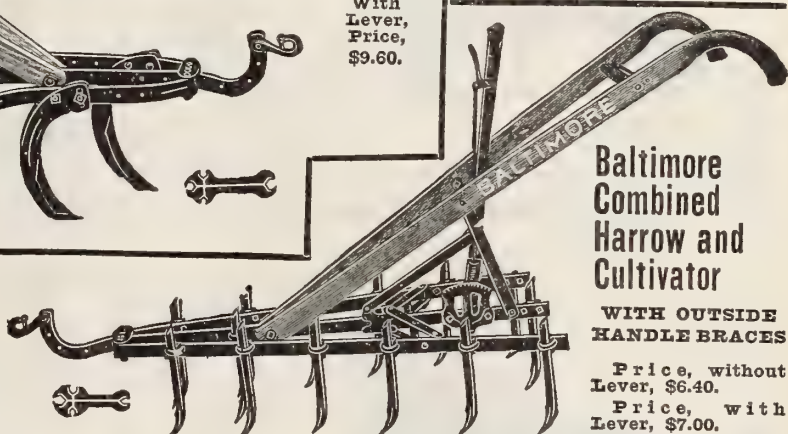
FIG. 21

The same tool as shown in Fig. 20, with the addition of the **Lever Wheel Attachment and Rear Wheel Depth Regulator.** Weight, 80 lbs.

Price, \$11.00.

Baltimore Combined Harrow and Cultivator

The teeth have four positions—first, position shown in cut, in which case can be used for working very close to small plants. Thoroughly pulverizes, throws no dirt on plants. Second position, as a straight tooth harrow. Third position, teeth can be arranged as a smooth harrow, with sharp points down, in order to cut and level surface. Fourth position, teeth can be set with sheared end down, being less liable to injure young plants.



**Baltimore
Combined
Harrow and
Cultivator**

**WITH OUTSIDE
HANDLE BRACES**

Price, without
Lever, \$6.40.

Price, with
Lever, \$7.00.

Can be contracted to 9
inches and expanded to 21
inches.
Weight, 51 pounds.
14-TOOTH.

**WITH OUTSIDE
HANDLE
BRACES**

Planet Jr.—Horse Hoes and Cultivators

It is an unquestioned fact that Planet Jr. horse-drawn cultivating implements are more universally known, and bear a higher reputation for quality, than any other cultivating machines ever made.

This reputation was established with the first of these tools put out. They were not only well made but designed by men who knew farming, and their success was as natural as it was complete. That leadership, handed down by the founders of this business, has been guarded with pride and energy.

On thousands of farms can be found Planet Jr. horse hoes and cultivators that have been in constant service through two, sometimes three generations.

These Cultivators
can be contracted to
about 9 to 10 inches,
and expanded to
about 26 inches.

WEIGHT
42 lbs.

wherever sold it becomes a favorite. Both have No. 89 plates.

Cultivator, plain.....	\$5.25
Cultivator with Lever.....	6.00
Horse Hoe Attachments, complete, per set of three pieces.....	2.40
Wheels for Cultivators, each.....	.90

Old Dominion and Oriole Cultivator

The difference between Oriole and Old Dominion Cultivators is: The first has bent frame and the other has straight frame. The Old Dominion Cultivator is sold principally in Virginia and the South, and

Price.

Planet Jr. Cultivator

Planet Jr. Plain Cultivator
Four 8x8 Cultivator Shares.
One 4x8 Cultivator Share.



Planet Jr. Cultivator



No. 4—With Steel Wheel.....	\$10.50
No. 4D—Cultivator without Wheel.....	8.50
No. 9—With Lever and Wheel.....	12.75
No. 9D—With Lever, no Wheel.....	10.75

No. 100D—Light Cultivator, no Wheel.....	\$7.50
No. 101—Light Cultivator with Lever and Wheel.....	11.00
No. 101D—Light Cultivator, with Lever, no Wheel.....	9.25

No. 9 Planet Jr. Horse Hoe

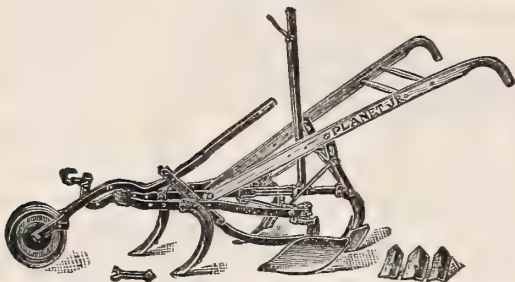
Planet Jr. Horse Hoe
Equipment:

Four 3x8 Steels
One 4x8 Steel
One pair 6" hillers
One 7" Shovel
Lever Expander



No. 9—With Steel Wheel.....\$14.25
No. 9D—Less Steel Wheel.....12.25

No. 8 Planet Jr. Horse Hoe



No. 8—With Wheel and Lever Wheel.....\$16.25
Vineturner adds.....2.50
Roller adds.....4.75
Steel Wheel as an extra.....2.00

No. 90 Planet Jr. 12-Tooth Harrow, Cultivator and Pulverizer

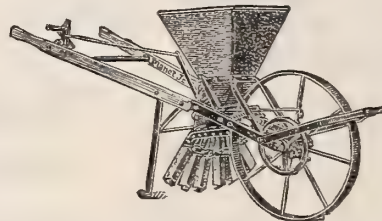
No. 90 Complete,
as shown, \$17.00



No. 90B—Less Pulverizer.....\$14.00
No. 90D—Less Pulverizer and Wheel.....11.00

No. 220 Planet Jr.

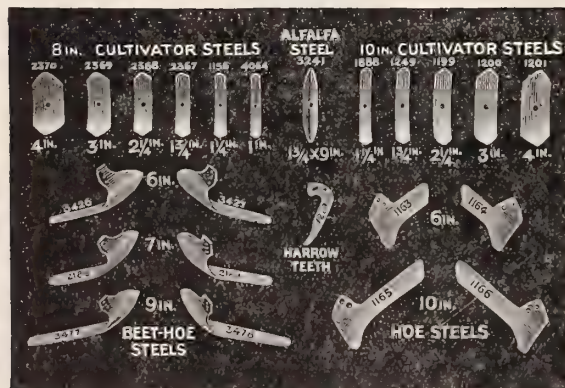
The New Planet Jr. No. 220 Fertilizer Distributor Saves
Time, Labor—Produces Bigger Crops.



The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart (one complete row) and corn in wider rows. You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow

in three spouts and distributing through the other three—either on the right or left-hand side.

The No. 220 spreads fertilizer from 4 to 30 inches on the ground. The hopper capacity is one bushel and the weight of the load is placed over the wheel, making it easy to push. It will distribute 100 to 2,000 pounds of commercial fertilizer to the acre. The shut-off rod is operated without stopping the distributor. Price, \$27.00.



8-inch Steels Fit Planet Jr. Horse Hoes, Plain Cultivators
and No. 72 Pivot Wheel Cultivator

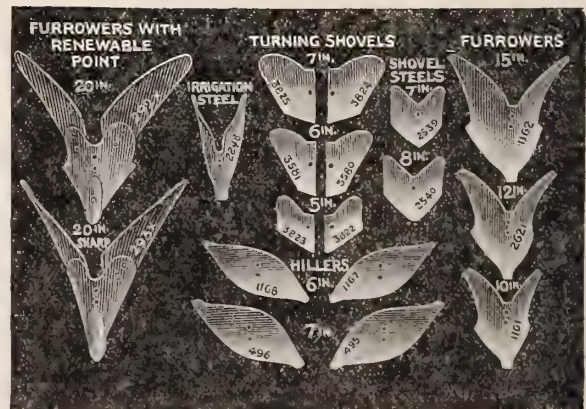
		Price
1	x 8-inch Steels, No. 4064.....	\$.16
1 1/4	x 8-inch Steels, No. 1156.....	.17
1 3/4	x 8-inch Steels, No. 2367.....	.18
2	x 8-inch Steels, No. 2368.....	.20
3	x 8-inch Steels, No. 2369.....	.22
4	x 8-inch Steels, No. 2370.....	.27

10-inch Steels Fit All Planet Jr. Two-Horse Cultivators
Excepting No. 72

1 1/4	x 10-inch Steels, No. 1888.....	\$.19
1 3/4	x 10-inch Steels, No. 1156.....	.22
2 1/4	x 10-inch Steels, No. 1199.....	.24
3	x 10-inch Steels, No. 1200.....	.28
4	x 10-inch Steels, No. 1201.....	.32

Hoe Steels Fit Planet Jr. Horse Hoe Side Standards

6-inch Hoe Steel and Bolt, No. 1163/4, Pair.....	\$1.30
10-inch Hoe Steel and Bolt, No. 1165/6, Pair.....	1.50



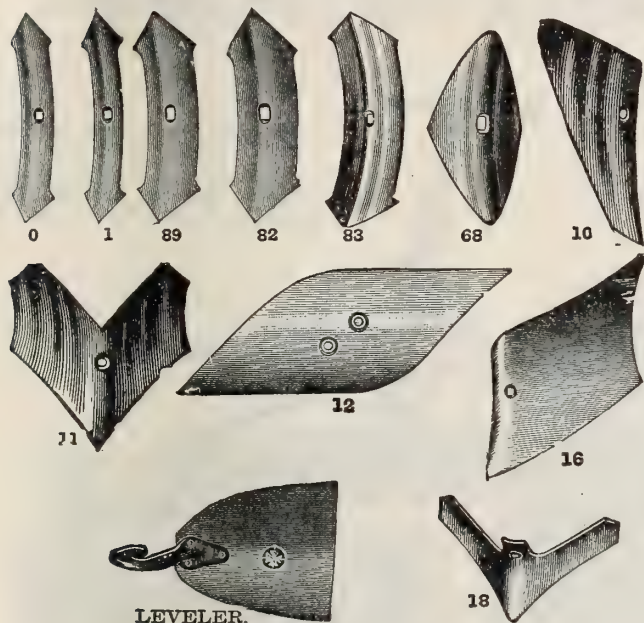
Shovel Steels Fit All Planet Jr. One and Two
Horse Cultivators

	Price
7-inch Shovel Steel, No. 2539.....	\$.35
8-inch Shovel Steel, No. 2540.....	.40
6-inch Hillers, No. 1167/8, per pair.....	1.30
6-inch Hillers, with connecting pieces, per pair.....	2.30
7-inch Plows, No. 495/6, per pair.....	1.60
7-inch Plows, with connecting pieces, per pair.....	2.60

Furrowers Fit All Planet Jr. Cultivators
Excepting 12-Tooth Harrows

10-inch Furrower, No. 1161.....	\$1.00
12-inch Furrower and Bolt, No. 2621.....	1.35
15-inch Furrower and Bolt, No. 1162.....	1.75
20-inch Furrower and Bolt, No. 292X.....	3.25
20-inch Furrower, Sharp, No. 293X.....	3.25
Wings for 20-inch Furrower, per pair.....	1.30
Point for 20-inch Furrower, No. 1948.....	.30
Harrow Tooth, No. 1229.....	.35

CULTIVATORS AND HORSE HOE STEELS



	Price
No. 0—1½-in. Diamond Point Steel.....	\$12.00 per 100
No. 1—2 -in. Diamond Point Steel.....	12.50 per 100
No. 89—2½-in. Diamond Point Steel.....	13.00 per 100
No. 82—3 -in. Diamond Point Steel.....	14.00 per 100
No. 83—3½-in. Diamond Point Steel.....	16.00 per 100
No. 84—4 -in. Diamond Point Steel.....	18.00 per 100
No. 68—Oval or Jersey Point Steel.....	20.00 per 100
No. 10—Turn Shovel, right or left.....	26.00 per 100
No. 16—Turn Shovel.....	24.00 per 100
No. 11—6-in. Sweep, about 7-in. across.....	31.00 per 100
No. 11—8-in. Sweep, about 11-in. across.....	33.00 per 100
No. 12—Horse Hoe, Steel only, without shank, R. & L.....	.65 each.

	Our Special Price
Horse Hoe, Steel, with Shank or Standard, per pair..	\$1.25
Horse Hoe Attachments, complete, per set of three pieces	2.40
No. 18—6-in. Sweep, each.....	.32
No. 18—8-in. Sweep, each.....	.36
No. 18—10-in. Sweep, each.....	.40
No. 18—12-in. Sweep, each.....	.48
No. 18—15-in. Sweep, each.....	.60
Wheels for Cultivator, each.....	.95
Levelers for Cultivators, each.....	.90
Cultivator Plate Bolts, 1½, each.....	.03
Cultivator Plate Bolts, 2½, each.....	.03
Cultivator Frame Bolts, each.....	.03
Wheel Cultivator Clamps, each.....	.40
Set Screw Cultivator Clamps, each.....	.38
Teeth for Baltimore Combined Harrow and Cultivator Diamond Shaped Steel, each.....	.14
Cultivator Handles, finished with rod and round, per pair	1.40

All of the above goods are of the best steel and highly polished.

SHOVEL PLOW HANDLES

Finished, for Single, Double or Triple Shovel Plows,
complete with round and rod, per set.....\$1.40

Steels for Riding Cultivators

WITH AND WITHOUT BACKS

For Round and Open Foot Shanks. For Brown, Brown-Manly, Buckeye and Deere Cultivators.



In ordering 5x11-inch Steels in less than sets of four, always specify whether wanted with straight top or flared top, and right or left hand.

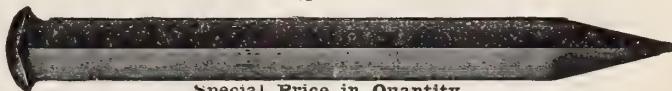
STEELS FOR RIDING AND WALKING CULTIVATORS

Our Special

	Price
1½x10½ inches, Reversible with Back.....	\$.40
2 x10½ inches, Reversible with Back.....	.44
2½x10½ inches, Reversible with Back.....	.48
3 x10½ inches, Reversible with Back.....	.52
3½x10½ inches, Reversible with Back.....	.56
1½x10½ inches, Reversible without Back.....	.18
2 x10½ inches, Reversible without Back.....	.18
2½x10½ inches, Reversible without Back.....	.19
3 x10½ inches, Reversible without Back.....	.20
3½x10½ inches, Reversible without Back.....	.22
4 x10½ inches, Reversible without Back.....	.23
5 x11 inches, With Back.....	.24
5 x11 inches, Without Back.....	.70
5 x11 inches, Not Bored.....	.50
1½x10½ inches, Bull Tongues, with Back.....	.50
2 x10½ inches, Bull Tongues, with Back.....	.48
2½x10½ inches, Bull Tongues, with Back.....	.50
1½x10½ inches, Bull Tongues, not Bored.....	.52
2 x10½ inches, Bull Tongues, not Bored.....	.25
2½x10½ inches, Bull Tongues, not Bored.....	.26
2½x10½ inches, Bull Tongues, not Bored.....	.27

Spike Harrow Teeth

½ and 7/16 in., lb..... }
5/8 in., lb..... }8c
¾ in., lb..... }

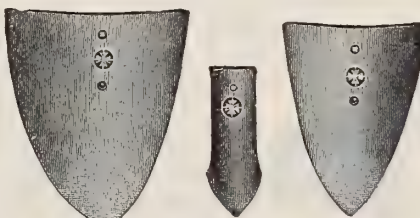


Special Price in Quantity.

STEELS

SIZES SHOVEL PLOW STEELS

For Single and Double Shovel Plows.



DRAG BLADES.

4"x7", 4½"x7",
5"x8".

D. S. BLADES

5", 5½", 6", 6½",
7" wide.
8", 10" and 11"
long.

S. S. BLADES

All sizes from
8" to 19" wide by
11" to 16" long. In
1 and 2 hole.

CALF TONGUES—1½", 1¾", 2" wide by 8" long.

BULL TONGUES—1¾", 2" and 3" wide by 11" long.

Above can be furnished in 1 or 2 hole.

Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels, per pound\$.13
Farmers' Favorite Triple Shovel Plow Steels, per pound.14
Farmers' Favorite and Double Shovel Plow Steels, per pound12
Bolts for Shovel Plow Blades, each..... .04
Shovel Plow Fender..... .70

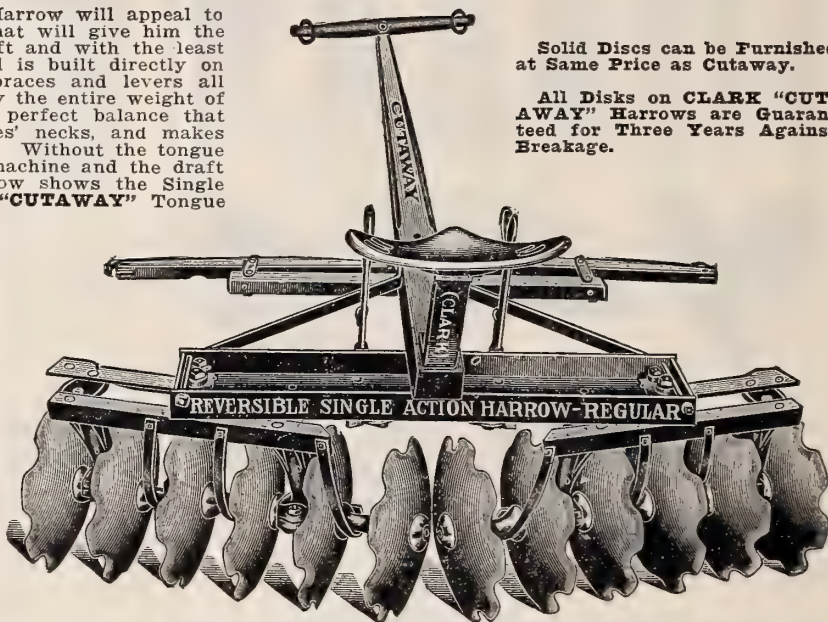
Clark
"CUTAWAY"

SINGLE ACTION DISK HARROW

The **CLARK "CUTAWAY"** Single Action Harrow will appeal to the practical farmer who wants a harrow that will give him the greatest amount of work with the least draft and with the least cost. Note in the illustration that the head is built directly on top of the gangs, with the tongue, seat, braces and levers all fastened to it, thereby making the disks carry the entire weight of the machine. This construction gives such perfect balance that there is practically no weight on the horses' necks, and makes the use of a tongue truck a matter of choice. Without the tongue truck the hitch is placed back close to the machine and the draft is the very minimum. The illustration below shows the Single Action Harrow equipped with the **CLARK "CUTAWAY"** Tongue Truck.

The gangs on the **CLARK "CUTAWAY"** Single Action Harrow can be swung end for end, so that the soil may be thrown either out or in. To reverse, it is only necessary to pull the cotter pins that hold the lever links, drop the links, swing the gangs around and reattach links. This reversible feature is especially valuable in orchard work for it enables the fruit grower to throw the soil towards his trees or pull it away. On account of the way the harrow is built the reversing feature does not increase the cost nor does it necessitate buying a special harrow.

One of the outstanding features of all **CLARK "CUTAWAY"** Harrows is the quality of the disks. They are made of better steel than used in ordinary harrow disks but their strength and wearing qualities are greatly increased by forging the edge and heat-treating. **CLARK "CUTAWAY"** disks are the only ones that have forged edges; this forging pro-



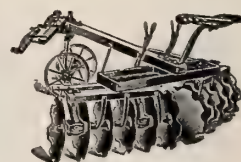
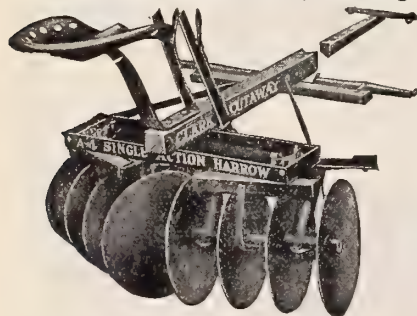
Solid Disks can be Furnished at Same Price as Cutaway.

All Disks on **CLARK "CUTAWAY"** Harrows are Guaranteed for Three Years Against Breakage.

cess makes a hard, tough edge which will not bend, crack or chip. Cutout disks are regular equipment but solid disks will be furnished at the same price.

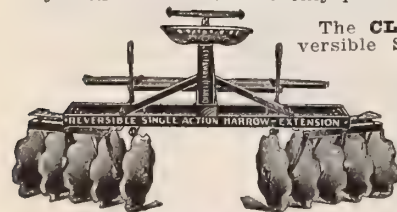
Below are listed the more popular sizes although there are some larger sizes made, and also any of these harrows can be purchased with different hitches than listed at a slight variation in price.

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Retail Price
A-4	8	16-in.	4-ft.	2-h	255	\$43.00
A-5	10	16-in.	5-ft.	3-h	295	49.65
A-6	12	16-in.	6-ft.	4-h	350	56.80
A-7	14	16-in.	7-ft.	4-h	460	63.00
X-4	8	18-in.	4-ft.	2-h	300	46.35
X-5	10	18-in.	5-ft.	3-h	350	54.30
X-6	12	18-in.	6-ft.	4-h	430	63.25
Extra for Tongue Truck.....						8.50



Single Action Harrow—Extension

The importance of thorough orchard tillage is now so well recognized among fruit growers that they want tillage implements which will give them not only the highest quality of work but which will also cover the maximum amount of area possible. In orchards where the trees are headed low ordinary disk harrows can do only part of the work.

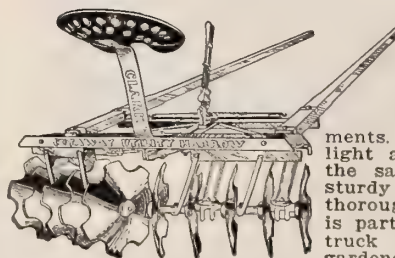


The **CLARK "CUTAWAY"** Reversible Single Action Harrow—Extension is built along exactly the same lines and has the same valuable features as the Single Action Harrow—Regular described above. An orchard disk harrow to be efficient must have reversible gangs.

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Retail Price
A-4	8	16-in.	6-ft.	2-h	280	\$44.55
A-5	10	16-in.	7-ft.	3-h	320	52.25
A-6	12	16-in.	8-ft.	4-h	395	60.85
X-4	8	18-in.	6-ft.	2-h	340	48.95
X-5	10	18-in.	7-ft.	3-h	385	57.25
X-6	12	18-in.	8-ft.	4-h	460	67.25

Solid or cutout disks will be furnished at the same price.

One Horse Disk Harrows



The Utility Harrow, as is true of the other **CLARK "CUTAWAY"** One Horse Disk Harrows, is designed and constructed specially for one-horse requirements. While the harrow is light and easy to handle, at the same time it is a very sturdy machine and does a thorough job of disking. It is particularly popular among truck farmers and market gardeners.

The **CLARK "CUTAWAY"** Utility Harrow has 10 14-in. disks, cuts 4 feet wide. The gangs can be reversed in the same manner as the larger Single Action Disk Harrows described above. One handy lever easily sets the gangs at different working angles. The frame is of angle steel construction and all parts are of the same high quality as in all other **CLARK "CUTAWAY"** Implements. Disks are of heat-treated cutlery steel with the edges forged sharp. Cutout disks are regular equipment but solid disks will be furnished at the same price.

No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Retail Price
10	14-in.	4-ft.	1-h	200	\$36.00

Clark
"CUTAWAY"

BUSH AND BOG PLOW AND HARROW

On many farms are fields lying out as waste, simply because their owners do not know how cheaply and quickly they may be put under cultivation. The old, expensive hand-labor method is no longer necessary. Much work that could be done heretofore only by slow, tedious and hard labor with an axe and bush-knife, shovel and pick, can now be done with the CLARK "CUTAWAY" Bush and Bog Plow and Harrow.

For cutting brush land and cut-over timber land, for plowing bogs, or for doing any extraordinary hard plowing and disking the CLARK "CUTAWAY" Bush and Bog Plow and Harrow stands in a class absolutely by itself. It will subdue rough land that can not be worked with ordinary implements. This is not a new, untried machine; it has been on the market for more than thirty-five years. Thousands of acres of virgin land have been turned into productive farms with this remarkable implement and new uses are being found for it constantly.

Land reclaimed by the Bush and Bog Plow and Harrow pays over and over, in increased value alone, the cost of the machine, time and labor. This more-over does not end the usefulness of the machine, for it can afterward be used for any regular tillage and is especially good for disking heavy stubble such as corn. Among those farmers and orchardists who till unusually deep it is used for general cultivation. Since tractors have come into general use, the Bush and Bog Plow and Harrow has become very popular as an orchard implement for chopping up sod and disking in cover crops.

The late model tractor machine has heavy angle steel frame, and the large steel weight box which is furnished as an extra at a very low price is strongly recommended. Either lever or screw control will be furnished at the same price.

The disks on an implement subjected to such extraordinary abuse as the Bush and Bog Plow and Harrow must be of the very highest quality, and that is another reason for insisting upon a genuine CLARK "CUTAWAY" Implement



TRACTOR BUSH AND BOG PLOW WITHOUT WEIGHT BOX



Junior Bush and Bog Plow and Harrow

This implement is made for the farmer who has only two horses available but needs an implement to do the same kind of work as the large four-horse or tractor-type Bush and Bog Plow and Harrow. The Junior Machine is constructed exactly the same as the larger type so an extra illustration is unnecessary. But the Junior size instead of having 24-in. disks is equipped with 8 20-in. disks, and all other parts of the implement are correspondingly lighter. Long pole, two-horse doubletrees and neckyoke make up regular equipment. This machine is furnished with lever for adjusting the gangs and has a seat. The frame is of heavy first grade hardwood. It can be equipped with tractor hitch in place of the two-horse hitch on special order at the same price. Tongue Truck equipment can also be supplied if preferred.



4-H BUSH AND BOG PLOW AND HARROW

TRACTOR BUSH AND BOG PLOW WITH WEIGHT BOX

with the famous forged-edge disks of cutlery steel which are also heat-treated. Cut-out disks are regular equipment and are recommended for quickly and thoroughly chopping up the toughest kind of soil, but if the purchaser has a personal preference for solid disks, they can be supplied for the same price. Oiling is done through the hollow standard by means of spring cap oil cups. Bearings are of oil-soaked hardwood which have long been demonstrated to be the best bearings for disk implements.

For many years before tractors were used, the CLARK "CUTAWAY" Bush and Bog Plow and Harrow was sold in large quantities for horse use and many horse-drawn machines are still used. The small illustration below shows the implement equipped with long pole and four-horse hitch which includes double neckyoke. The frame on the horse-drawn tool is made of heavy selected oak. Four fairly good horses are required but where only two horses are available the Junior Bush and Bog Plow and Harrow can be used. The horse-drawn Bush and Bog Plow and Harrow can be furnished with a tongue truck, stub pole, and four-horse eveners if preferred at slight cost.

A Fordson Tractor can easily handle the regular Tractor Bush and Bog Plow and Harrow with 8 24-in. disks. A new size has just been added to the line for 15-30 tractors, having 12 24-in. disks.

A transport truck for transporting the implement from one field to another can be furnished as an extra

SIZES AND SPECIFICATIONS

TRACTOR BUSH AND BOG PLOW AND HARROW

No. of Disks	Diam. of Disks	Width of Cut	Frame	Wt.	Retail Price
8	24-in.	5½ ft.	Steel	655.....	\$110.70
12	24-in.	8 ft.	Steel	915.....	\$175.95
100.....				100.....	8.00

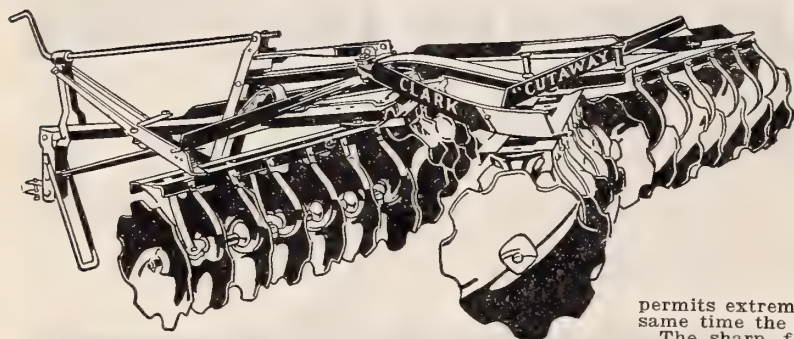
4-HORSE BUSH AND BOG PLOW AND HARROW

No. of Disks	Diam. of Disks	Width of Cut	Frame	Wt.	Retail Price
8	24-in.	5½ ft.	Wood	680.....	\$110.70

Tongue Truck in Place of Pole and Yoke, Add \$8.40

JUNIOR BUSH AND BOG PLOW AND HARROW

No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Retail Price
8	20-in.	4½ ft.	2-h	440.....	\$73.30



Clark "Cutaway" Flexible Double Action Tractor Harrow

Above is shown the latest addition to the Clark "Cutaway" line of tractor disk harrows. We were pioneers in building harrows specially designed and constructed for tractor use as we knew that tractor power required something heavier and stronger than merely a horse-drawn harrow equipped with tractor hitch.

Our new Flexible Double Action Tractor Harrow is the result of our many years experience in building tractor disk harrows. While the frame permits extreme flexibility on rough ground and in turning at the same time the harrow is very efficient and does high class work.

The sharp, forged-edge disks of cutlery steel penetrate easily, are keener cutting and longer wearing than ordinary disks. The disks are the most important part of a harrow and no other tractor harrow is equipped with forged-edge disks, for we make our own disks in our own factory.

The Flexible Tractor Harrow is equipped with screw control only. Notice the stand for supporting the pole while hitching to the tractor. The rear section may be removed and the front section used alone if desired.

SIZES AND SPECIFICATIONS

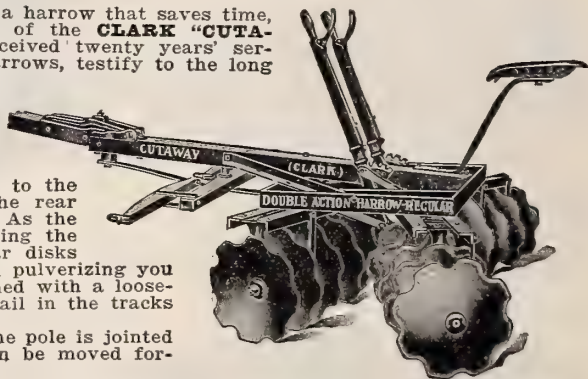
Size	No. of Disks	Diam. of Disks	Width of Cut	Weight	Price
A-6	24	16"	6½"	755	\$111.00
A-7	28	16"	7½"	860	119.00
X-6	24	18"	6½"	...	120.00
X-7	28	18"	7½"	...	130.00

Double Action Disk Harrows For Horses

The farmer who realizes the value of thorough tillage and wants a harrow that saves time, saves horses and gives long service, will appreciate the superiority of the **CLARK "CUTAWAY" Double Action Harrow**. Letters from farmers who have received 'twenty years' service, and more, from their **CLARK "CUTAWAY" Double Action Harrows**, testify to the long life and satisfactory results given by these good harrows.

CLARK "CUTAWAY" Double Action Harrows are known for their light draft as well as for the amount and quality of work they do. Notice in the illustration how all four gangs of disks are attached to one main frame. This unit main frame construction makes a very compact machine. The front and rear gangs of disks are close together and the horses are hitched close to the harrow, all of which means light draft. More important still, the rear disks must always cut exactly half way between the front disks. As the disks are spaced six inches apart, this means there is a disk cutting the soil every three inches; the front disks throwing out and the rear disks throwing in. You can easily see that this means the most thorough pulverizing you can possibly get with a disk harrow. Such results cannot be obtained with a loose-coupled tandem harrow which permits the rear disks at times to trail in the tracks of the front disks.

The harrow is self-supporting so no tongue truck is necessary. The pole is jointed so there is no weight on the horses' necks, but the doubletrees can be moved forward and the harrow used without the tip pole if desired.

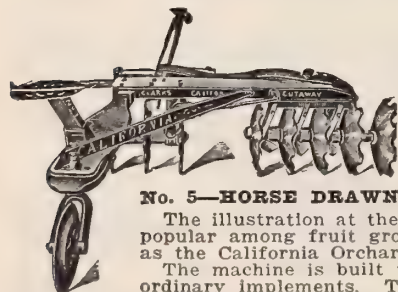


SIZES AND SPECIFICATIONS

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Retail Price
A-4	16	16-in.	4½ ft.	4-h	480	\$77.05
A-5	20	16-in.	5½ ft.	4-h	570	89.50
A-6	24	16-in.	6½ ft.	4-h	630	97.35

Solid or cutout disks will be furnished at the same price or any combination of the two types, but cutout disks are regular equipment unless otherwise ordered. These harrows are also made with 18-in. disks and different hitches can be obtained on any sizes. Prices on application.

Orchard Disk Plows For Horses and Tractor



No. 5—HORSE DRAWN

The illustration at the left shows the **CLARK "CUTAWAY" horse-drawn Orchard Plow** which has been so popular among fruit growers throughout the country for more than thirty years. It may be familiar to some as the California Orchard Plow which it was called until recently.

The machine is built to reach out underneath low-hanging branches where it is not possible to cultivate with ordinary implements. The flat coulter disks and the steering wheel absorb the side thrust and keep the mowing gang by two feet. These implements can be furnished with extension head which increases the reach of the plowing gang by two feet. Specifications of the three sizes are given below.

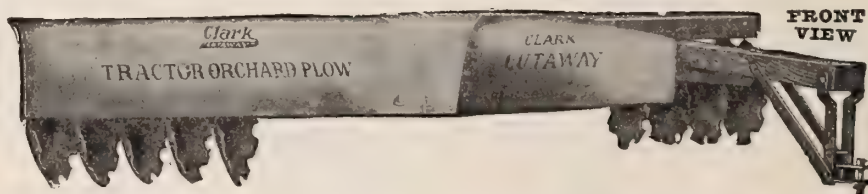
The Tractor Orchard Plow is built along the same lines as the horse-drawn machine. It is constructed much heavier throughout and has a galvanized sheet iron shield. There is a large under-slung weight box at the rear. The machine measures ten feet wide over all and specifications are given below. Send for special folder describing these implements in detail.

SIZES AND SPECIFICATIONS

Size	Plowing Disks	Coulter Disks	Width of Cut	Hitch	Wt.	Retail Price
No. 3	3, 22-in.	2, 17-in.	24-in.	2-h	340	\$54.75
No. 4	4, 22-in.	3, 18-in.	30-in.	2-h	410	69.00
No. 5	5, 22-in.	3, 18-in.	36-in.	2-h	440	74.65

TRACTOR ORCHARD PLOW

Plowing Disks	Coulter	Width of Cut	Weight	Retail Price
5, 22-in.	4, 18-in.	36-in.	775	\$125.00
Same Machine without tree guard.....				115.00



FRONT VIEW

Acme

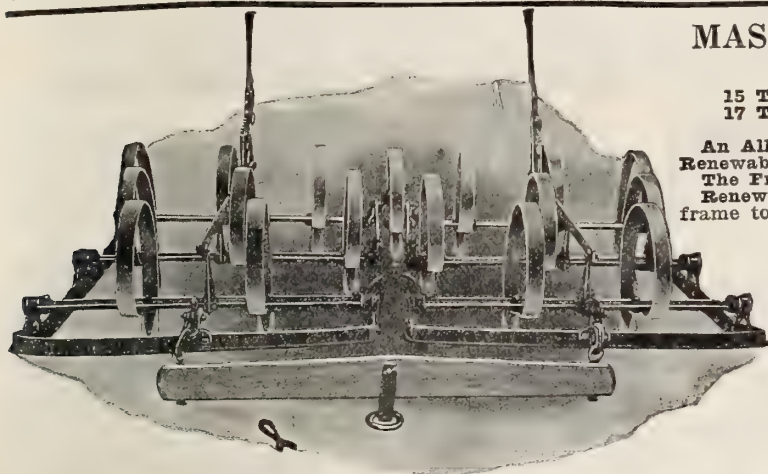


COULTTER HARROW

Flexible construction permits the harrow section to conform more closely to the shape of the surface of the soil.



No. 12F—12 coultters, 6½ ft. cut, 2-horse, 2-section, weight, 124 lbs.	\$30.00
No. 16F—16 coultters, 8½ ft. cut, 2-horse, 2-section, weight, 151 lbs.	37.00
No. 6—6 coultters, 3 ft. cut, 1-horse, 1-section, weight 77 lbs.	18.00
No. 8—8 coultters, 4 ft. 4 in. cut, 1-horse, 1-section, weight 94 lbs.	23.00
No. X6—24 coultters, 18 ft. 6½ in. cut.	120.00
No. X7—29 coultters, 18 ft. 7½ in. cut.	130.00
Coultters for all. ....	.85



MASSEY HARRIS RUNNER SPRING TOOTH LEVER HARROW

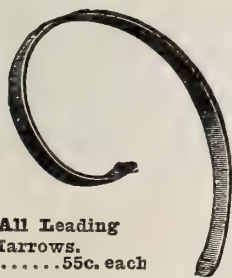
15 TOOTH, \$23.00	23 TOOTH, 2 SECTION, \$31.00
17 TOOTH, 24.50	23 TOOTH, 3 SECTION, 35.00
	25 TOOTH, 3 SECTION, 36.50

An All-Steel, Low-Down Lever Spring Tooth Harrow with Renewable Steel Runners. 15 or 17 Teeth. Two Sections. The Frame is made of special "T" Steel forged in one piece. Renewable Steel Shoes are bolted on to the underside of the frame to take the wear, so that no wear comes on the frame itself. These shoes can be renewed at a slight expense, making the harrow practically indestructible.

The Teeth are made from the best Open Hearth Steel, finely tempered in oil and fully warranted, and can be instantly raised or lowered by means of the levers. As the point of the tooth wears, same can be lowered by adjustment on the tooth bars.

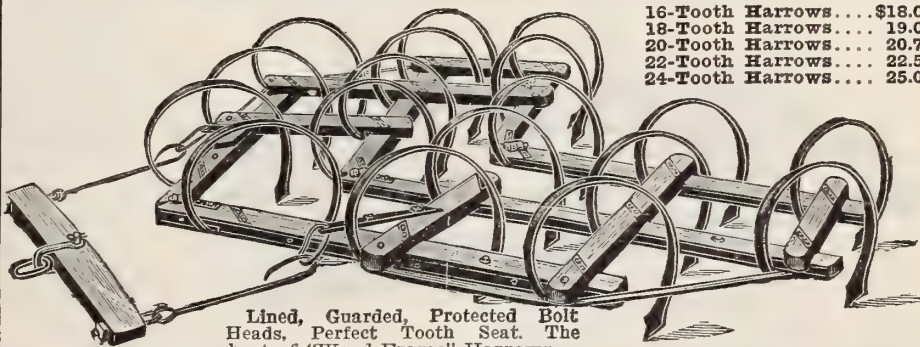
The Shape of the harrow is correct to make it run steadily and smoothly and permit the teeth always to work at a uniform depth; teeth can be easily raised or lowered, to transport from field. Construction is simple. It is durable and does not require a man and wrench to keep it in working order.

Spring Harrow Teeth



For All Leading Harrows.
Price.....55c. each
When taken in full sets, special price.

WOOD FRAME HARROW, STEEL LINED



16-Tooth Harrows....	\$18.00
18-Tooth Harrows....	19.00
20-Tooth Harrows....	20.75
22-Tooth Harrows....	22.50
24-Tooth Harrows....	25.00

Lined, Guarded, Protected Bolt Heads, Perfect Tooth Seat. The best of "Wood Frame" Harrows.

THE BUTTS REVERSIBLE HARROW

TOOTH POINTS

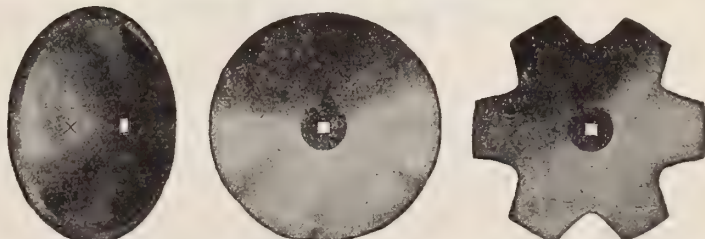


Can be used on all Spring Harrow Teeth.
Price, each, 30c.

Osborne.....Our Price, 20c.
Deering.....Our Price, 20c.

SYRACUSE REVERSIBLE HARROW TOOTH POINTS.
Price, 20c.
Michigan, 25c.

HARROW DISCS



FRONT AND BACK REGULAR HARROW DISC
HARROW DISCS

16 inch.....	\$1.25
18 inch.....	1.50

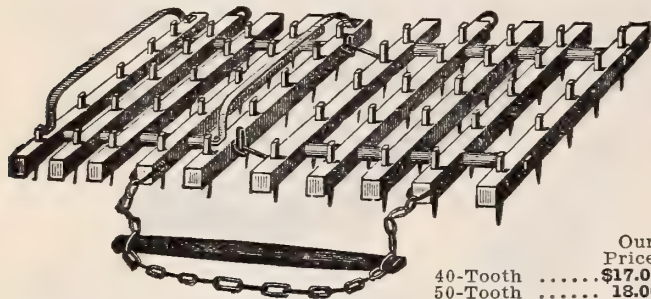
CUTAWAY HARROW DISC

CLARK CUTAWAY DISCS

16 inch.....	\$2.10
18 inch.....	2.60

Furnished 13/16 and 15/16 square hole.

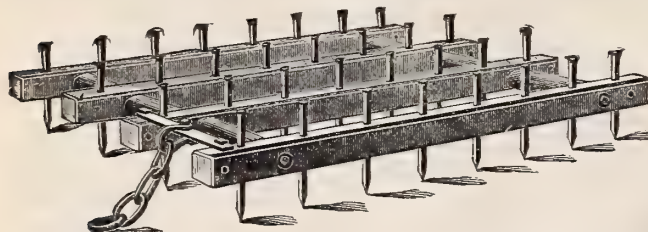
Baltimore Double Hinge Harrow



This is a two-section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

Our
Price.
40-Tooth \$17.00
50-Tooth 18.00

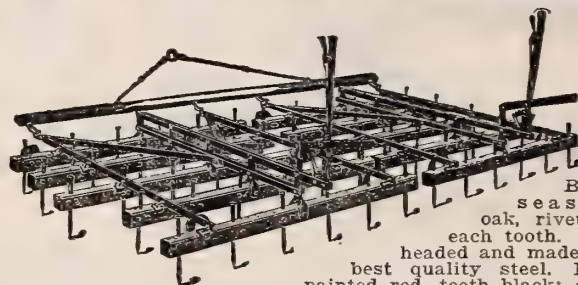
Gardner's Harrow



This Harrow is similar to the Baltimore Double Hinge Harrow, noted above, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

25-Tooth.....\$10.00
30-Tooth..... 11.00

CRITCO WOOD BAR LEVER HARROW



Bars of
seasoned
oak, riveted at
each tooth. Teeth
headed and made from
best quality steel. Frame
painted red, teeth black; combi-
nation draw bars furnished for two,
three and four-section harrows when ordered.

Our Price.
No. 2450—2-Section, 50-9/16-inch Teeth..... \$25.00
No. 2560—2-Section, 60-9/16-inch Teeth..... 27.50

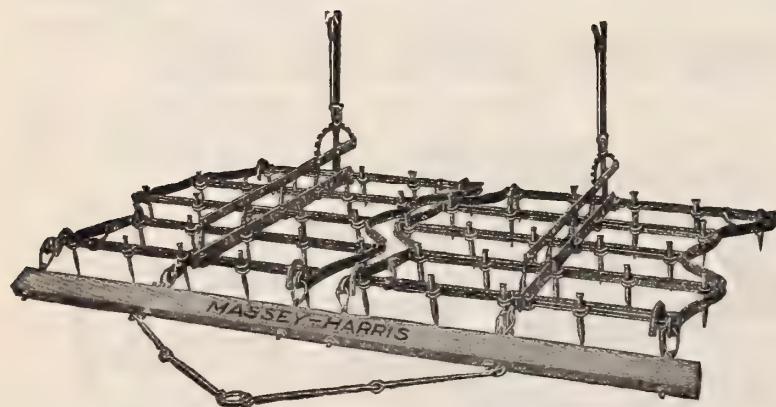
Massey-Harris Spike Tooth Harrow

Service of a lasting order is built into this simple implement just the same as it is into the Massey-Harris machines that are far more complex. High carbon steel predominates throughout the construction and all the parts have ample stiffness both to retain their shape under real hard usage and to resist the twisting strains to which they are subjected in field operation.

Stout Frame Sections. Two end bars made from steel channels, five cross bars made from steel "U" bars and a wide steel centre bar make up the frame sections. The channel bars tie the cross or tooth bars at their ends, hold them in line and prevent them from catching trash. The center bar acts as an additional tie for the cross bars and also furnishes a support for the shifting lever ratchet. At the left rear corner of the sections and at the right front one a stout bar of malleable iron is used. The arrangement of the cross bars is such that although each of them has the same tooth spacing none of the teeth trail.

Strong tooth fastening. Each tooth is held in place by a U-shaped steel clamp and one bolt. The clamp furnishes a double bearing for the tooth, around which it fits snugly at two points, and sets in the "U" of the bar so that the back edge of the tooth is brought up tightly into notches provided for the purpose in the two bar edges. The tooth is thus rigidly held at four points. Sufficient clearance is provided between the clamp and the bottom of the "U" of the tooth bar for taking up wear.

Flexible construction. The tooth bars are joined to the end bars in such a way that they can hinge perfectly and still permit each frame section to conform to the lay of the land. The harrow is thus given ample flexibility to work successfully in all fields. This flexibility is increased by the method of hitching the sections to the draw bar wherein each one is attached separately. The position of the teeth in relation to the surface of the ground is controlled by a lever on each section and is easily and quickly changed. At the four corners of each section a runner tooth is placed to facilitate transportation to and from the field.



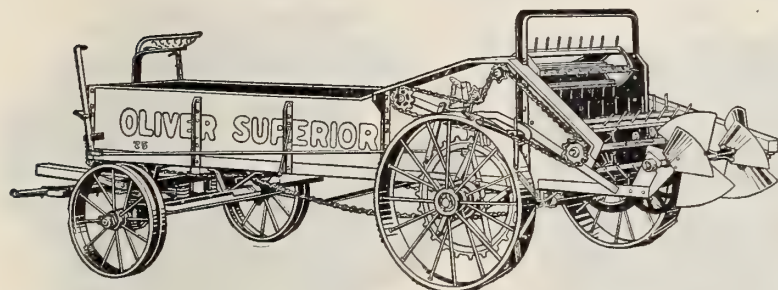
50-Tooth\$19.50 60-Tooth\$22.00 75-Tooth\$31.00

MASSEY-HARRIS STEEL REPAIRS FOR PLOWS

(Formerly Case)

Plow	Cast Share Brand	Price	Steel Share Brand	Price			
				Solid	Hard	Moulds	Plain Land
480½ GEX	GM O	\$1.10	10 G	\$2.50	\$3.70	\$8.00	\$3.00
482½ GEX	GM 2	1.20	12 G	2.80	4.25	8.50	3.00
484½ GEX	GM 4	1.35	14 G	3.00	4.55	10.00	3.50
510½ GPX	GP 0	1.10	GP 10	2.50	....	8.00	1.50
512½ GPX	GP 2	1.20	GP 12	2.80	....	10.00	1.70
514½ GPX	GP 4	1.35	GP 14	3.00	....	10.00	1.70
SG 12	SG 2	1.20	SG 12	2.80	4.25	8.50	2.50
SG 14	SG 4	1.35	SG 14	3.00	4.55	10.00	2.50
SG 16	SG 6	1.50	SG 16	3.55	5.00	10.75	2.50

OLIVER SUPERIOR SPREADER No. 75



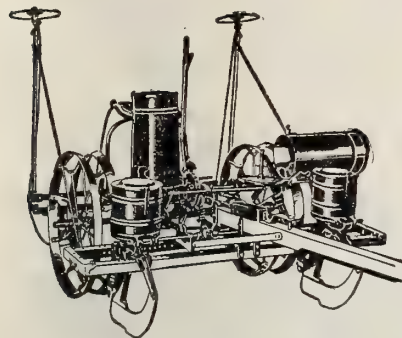
Has the biggest capacity of any Spreader, yet is easily pulled by two horses.

Exclusive features found on no other Spreader. Uses Hyatt Roller Bearings.

A lime sowing attachment for the most efficient distribution of lime can be furnished. Every desirable feature in spreader construction has been included in the new Oliver Superior 75 Spreader. Write for special illustrated circular.

No. 75 Oliver Superior Spreader (with either 2-horse hitch or tractor hitch, with wide spread attachment.....\$166.87
 Brake attachment, complete..... 8.75
 3 horse hitch instead of 2 horse hitch, add. 3.13

OLIVER SUPERIOR PLANTERS and DRILLS



Are accurate and reliable. The 9A Planter and 9A Drill give you better stands. Plants accurately. No. 9A check wire Planter, adjustable for rows from 28 inches, every two inches to 48 inches apart. No. 9A Drill will drill corn 10, 12, 18, 20 and 26 inches apart in rows 28 to 48 inches. 30 inch wheels; open and closed tires.

No. 9A—Runner Planter, with check wire.....\$80.00
 No. 9A—Runner Drill Planter, no check wire..... 66.87
 No. 9A—Disc Planter, with check wire..... 70.31
 Fertilizer Attachment, add..... 25.00

OLIVER SUPERIOR GRAIN DRILLS



No word we can say could make as deep an impression on the public as the wide spread sale enjoyed by this, the best known drill on the market. It can be supplied in many different sizes, so we only mention those mostly used.

No. 26—Fertilizer, Single or Plow for Disc Drills or Spring Hoe, with drag chains. No seat, agitator or scrapers. With Grass Seeder.

8x8 Disc, 2-Horse Hitch, 1 Pole.....	\$143.56
10x8 Disc, 2-Horse Hitch, 1 Pole.....	163.62
9x7 Disc, 2-Horse Hitch, 1 Pole.....	152.62
10x7 Disc, 2-Horse Hitch, 1 Pole.....	162.37
11x7 Disc, 2-Horse Hitch, 1 Pole.....	171.81
12x7 Disc, 3-Horse Hitch, 2 Poles.....	188.50
13x7 Disc, 3-Horse Hitch, 2 Poles.....	202.00
8x8 Spring Hoe, 2-Horse Hitch, 1 Pole.....	137.62
10x8 Spring Hoe, 2-Horse Hitch, 1 Pole.....	156.75
9x7 Spring Hoe, 2-Horse Hitch, 1 Pole.....	146.06
10x7 Spring Hoe, 2-Horse Hitch, 1 Pole.....	155.50

Large Sizes Can Be Furnished with Tractor Hitch.

OLIVER SUPERIOR CULTIVATORS

No. 123—4 Shovel, spring trip, walking parallel.....	\$40.50
No. 125—6 Shovel, spring trip, walking parallel.....	45.50
No. 957½—6 Shovel, spring trip, riding, round shank open sleeve	57.50
No. 959½—6 Shovel, spring trip, riding, round shank open sleeve	61.25

OLIVER SUPERIOR LIME SOWERS

No. 1—Finger Feed, 8 ft.....	\$93.75
No. 16—Agitator Feed, 8 ft., with auxiliary agitator....	87.81
Screen for Sowers.....	7.50

THE NEW CLIPPER **Grain, Seed, and Bean Cleaner**

These Cleaners are guaranteed to be first-class in every respect. They are built by competent and skilled workmen and nicely finished in three coats of paint and varnish.

We furnish the best outfit of screens ever sent out with a farm Mill. Our perforated zinc screens are graduated in 64ths of an inch in both round and oblong holes. Our woven wire screens are made of plated wire with the meshes uniform and true to count. The zinc screens will not rust and our plated wire screens will last for years if properly cared for.

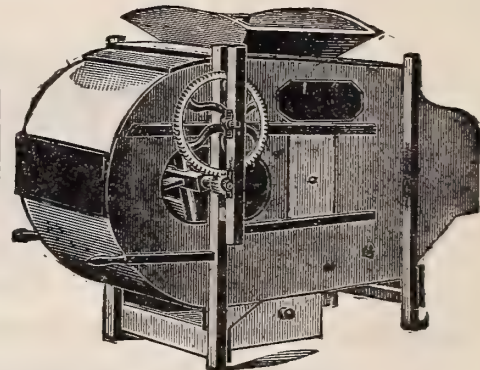
VERTICAL AIR BLAST. This is a feature that no other cleaner has and it makes possible some very difficult separations that can be made in no other way. For instance, when cleaning seed wheat, if the blast is properly regulated and the mill turned just fast enough, all the light, shrunken kernels can be blown out or separated, leaving only the largest, heaviest, plumpest grain which is the choicest kind of seed. The same is true when cleaning seed oats—The Vertical Blast blows out all the light shrunken kernels and "pin oats" leaving heavyweight high grade seed. The same is true of Barley and Rye. If you use an air blast sufficiently strong on your seed grain, you can raise the weight from three to five pounds per bushel. That is, the grain will weight that much more per measured bushel, after being graded on the Clipper Cleaner, than it did before the light immature kernels were removed.

The No. 2-B differs from the No. 1-B only in size and capacity. Both machines are equipped with a set of 12 screens for general farm use. The No. 2-B is larger.

No. 1-B	\$48.00
No. 2-B	55.00
Pwer Attachment extra.....	5.00



Baltimore Improved **Grain Fan**



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

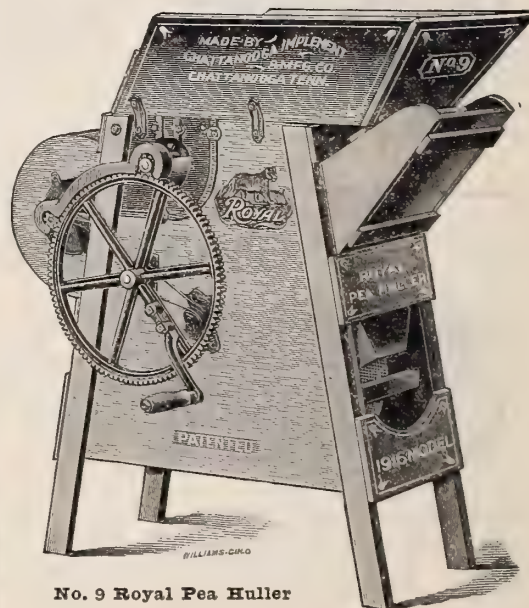
List Price, \$70.00.

Our Special Price, \$45.00.

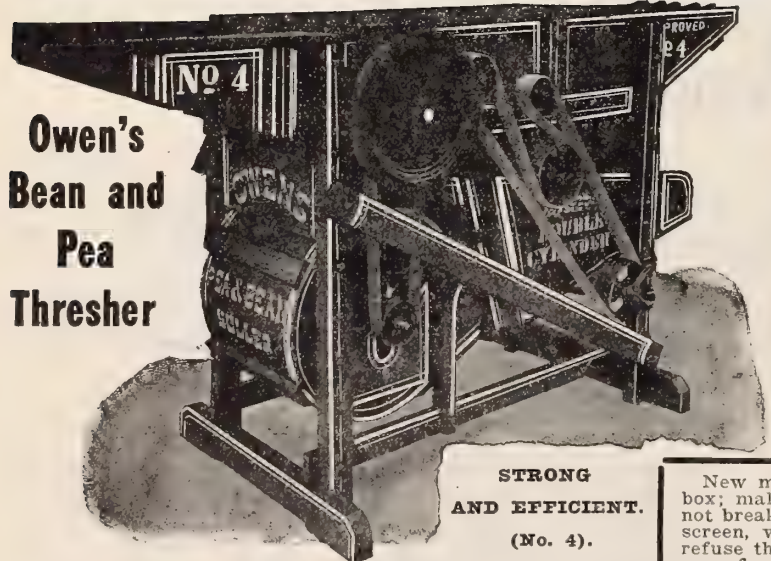
Sieves, List Price, each, \$3.00.

Retail, \$2.00.

No. 9 Royal Pea Huller



No. 9 Royal Pea Huller



STRONG
AND EFFICIENT.
(No. 4).

It will thresh all varieties of beans and peas directly from the vines as taken from the field, without splitting the grain, and at the same time shred the vines, the same as the larger size threshers. We wish to make one exception to the above, and that is in cow peas, where the vines grow very rank and heavy. You will readily see that, on account of its size, the No. 4 could not possibly be expected to handle these like one of our larger threshers, but where the vines do not grow too large and where care is exercised in feeding, it does very good work, indeed. We have shipped a great many of the No. 4 threshers to all parts of the South, and they are giving excellent satisfaction, especially with those who simply wish to save the seed and do not care for a large capacity. Capacity, 10 bushels per hour. One to three horse-power.

The No. 4 will also thresh buckwheat. Weight, 400 pounds. Price, \$120.00. 16x20 Thresher \$225.00.

New model No. 9, with heavy bearings, wooden frame and box; malleable iron cylinder and concave sections. Teeth do not break. Heavy fly-wheel and two cranks. Patent revolving screen, which insures absolutely clean peas and carries the refuse through a separate outlet. Reversible hopper to allow use of machine for cleaning wheat or other small grain. Cleans and threshes the peas thoroughly without breaking them. Shipping weight, 260 pounds. Can be furnished for operation by power by substituting a pulley and heavier shaft for one of the cranks at an additional net cost of \$2.50. Cow Peas intended for seed should be allowed to get more mature. These will unavoidably lose most of the leaves, but will still be good feed after the Peas are picked and threshed.

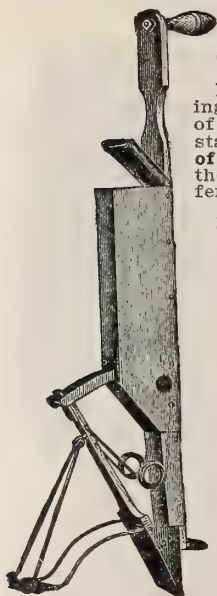
The **ROYAL PEA HULLER** will save a larger per cent. of all the Peas than any other method. The ownership of a Royal Pea Huller represents an outlay so small in comparison to the benefits, that no successful farmer will be without one.

Special and exclusive features to be had only with these machines are covered by patent, and cannot be had in any other make. Capacity, 8 to 15 bushels Dry Peas per hour. Price, \$60.00.

Gritco Hand Corn Planter

In the Gritco there is no chance of cracking the corn, beans or other seed, because of the Chinese bristle brush cut-off. The stamped stell slide is formed on a segment of the circle, whose center is the pivot of the blades. Slide quickly adjusted for different sized seeds. Galvanized iron hopper.

List, each, \$3.20. Retail, each, \$2.00.



Acme Hand Corn Planter

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop.

List, each, \$4.00. Retail, each, \$2.50.

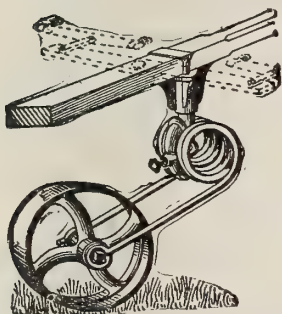


KEYSTONE TONGUE SUPPORT

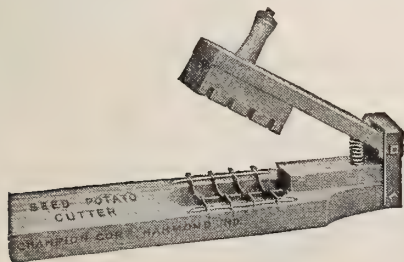
For Harvesting Machinery and Disk Harrows

This Tongue Support is simple and light in weight. The springs are made of best $\frac{5}{8}$ -inch spring steel. The coils are $4\frac{1}{2}$ inches in diameter, and have arms extending 12 inches. The wheel is $11\frac{1}{2}$ inches high, with $2\frac{3}{4}$ -inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength.

Price, \$5.00.



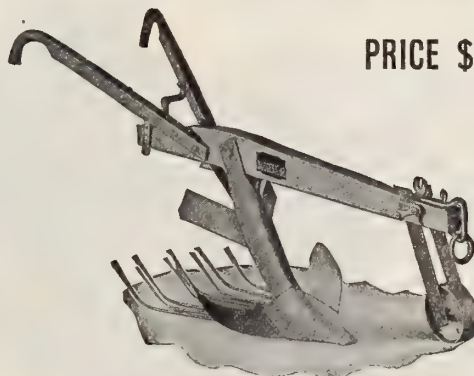
O. K. Champion Hand Potato Cutter



Price\$5.00

Success Junior Potato Digger

PRICE \$12.50

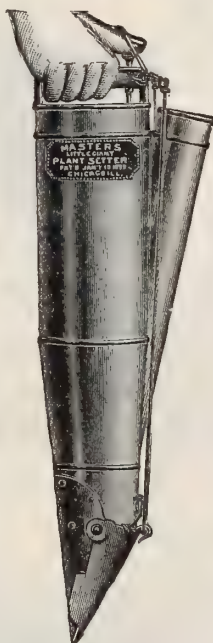


The **SUCCESS JUNIOR POTATO DIGGER** does cleaner digging in one trip over the row, and the tubers are left in better condition for picking up. It greatly reduces the labor, and saves many potatoes.

Master's Rapid Plant Setter

All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, etc.. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each.....\$6.00



Acme Tubular Hand Potato Planter

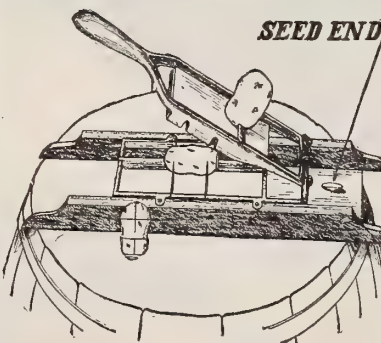
THE LIGHTEST TUBULAR PLANTER MADE.

Its spring-closed jaws are especially designed to enter the sod easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

OUR SPECIAL PRICE...\$2.00

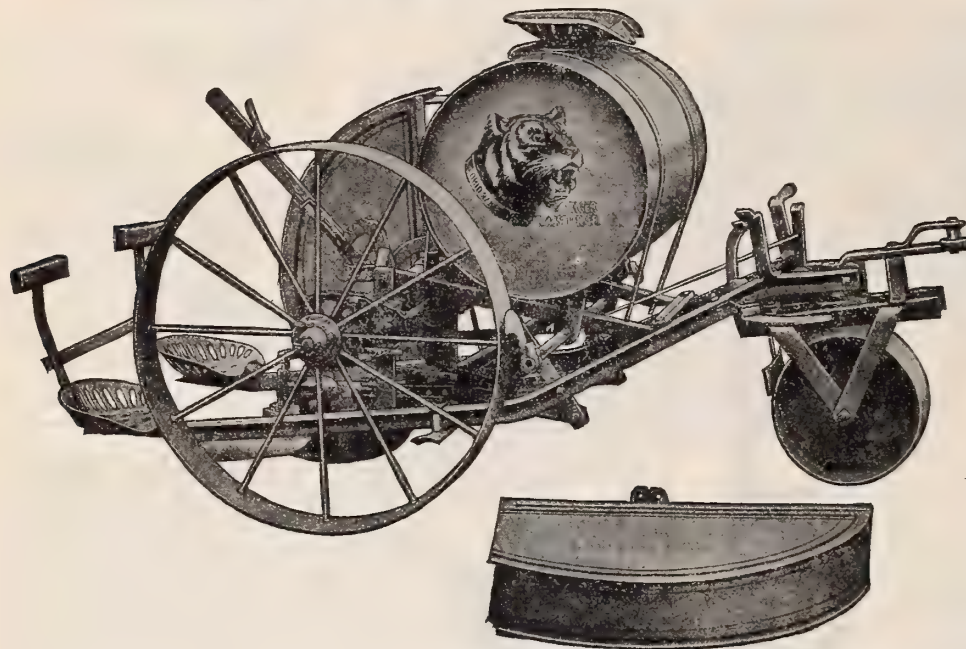
Directions for Using.—Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

THE GEM SEED POTATO CUTTER



The construction of the **Gem Seed Potato Cutter** is very simple, and is built for accuracy as well as convenience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, making them easy to remove if necessary. It will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. **Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List Price, \$8.00. Our Special Price, \$5.00.**

THE IMPROVED TIGER TRANSPLANTER



**SAVES TIME, LABOR AND
GIVES YOU STRONGER
PLANTS**

It isn't necessary today to convince any intelligent farmer who grows tobacco, cabbage, tomatoes, strawberries, sweet potatoes, nursery stock—any kind of plants that require transplanting—that it pays to use a good transplanter. It is now generally known that plants transplanted when the ground is dry have a more rapid growth and are stronger and healthier than those transplanted when there is a season in the ground.

With a Massey-Harris Transplanter you can set your plants when they are just the right size. You know the danger of transplanting when plants get too large on account of waiting for a season. You can't afford to run that risk.

You avoid tramping and packing the ground around the newly set plant.

You avoid putting the water on top of the ground, which causes the ground to bake and crack and you don't have to hoe around the plants, as you have to when you water them by hand.

You can pack the soil around the roots, so that the plant gets a good start in life.

CONVENIENT PRESSURE LEVER

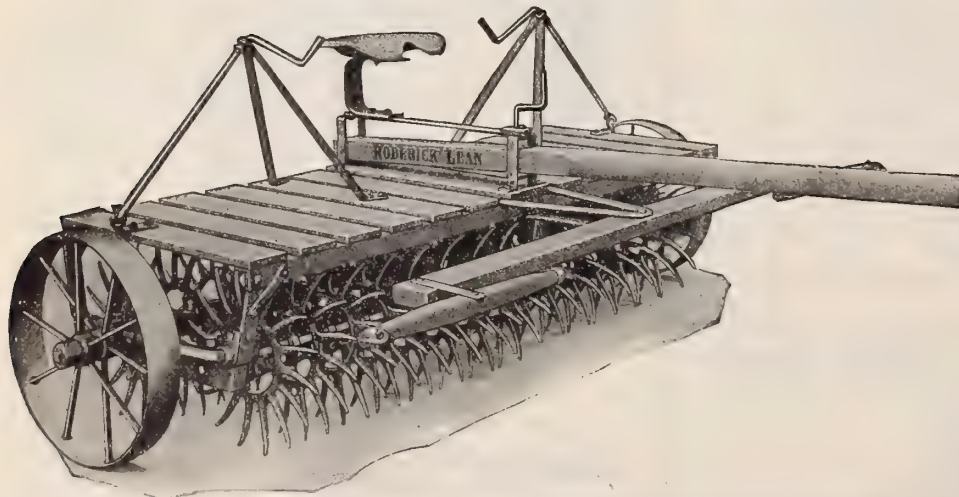
The pressure lever, within convenient reach of either of the plant setters, controls the pressure of the press wheels in pressing the earth about the roots of the plant.

ADJUSTABLE WATER SUPPLY

The water supply is easily and quickly adjusted by a guide through which the trip rod passes. Raising the guide increases the flow of water, lowering it lessens the flow.

Deep, medium or shallow runners can be furnished. The runner is forced into the ground by a powerful spring attached to the raising lever, and can be set at depth desired. **PRICE, \$93.50. Additional for Double Wheel Fore Truck for Planting Sweet Potatoes, \$10.50. Fertilizer Attachment, \$18.00.**

RODERICK LEAN ROTARY HOE



**WITH CULTIVATING DEPTH
REGULATED FROM SEAT**

The Roderick Lean Rotary Hoe will cut your cultivating costs in half. Any boy with a team and a Roderick Lean Rotary Hoe can cultivate and weed as many acres in a day's time as can two men and two teams using other types of cultivating machines.

Because it is light draft, easy to handle and covers so much more ground in a day's time, it can be used frequently and effectively during that critical time when the crop is just getting its growth, and when proper cultivation and weed control mean the most.

This Roderick Lean Rotary Hoe is the most advanced type of rotary hoe. It is the first machine of its kind to be equipped with a positive depth regulating device controlling working depth of the spider wheels, and operated from the seat of the machine without stopping or dismounting. Two easily-turned regulating cranks,

one for each side of the machine, equipped with universal joints and engaging heavy worm gears in malleable ratchets, raise and lower both front and rear spider wheels at once. **No heavy, unwieldy levers to pull**—no stops, no delays. The spider wheels cannot be forced out of the ground, regardless of conditions or speed. When raised for transporting they cannot drop.

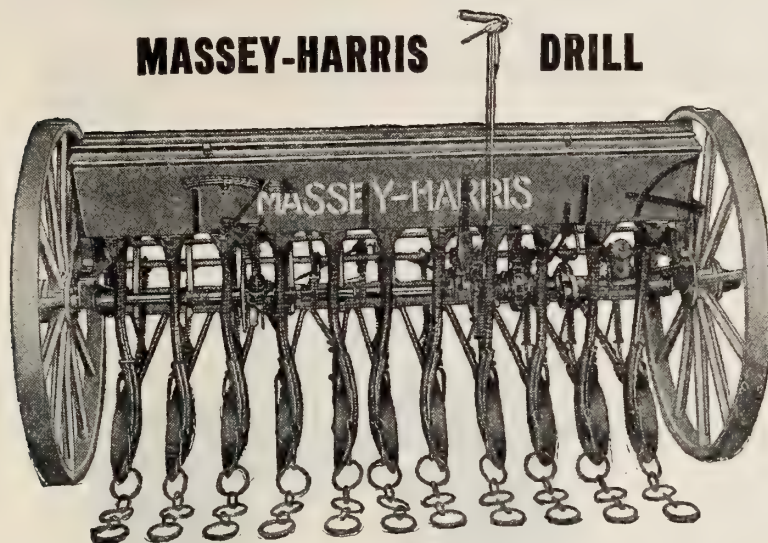
Another valuable feature on the Roderick Lean Rotary Hoe is its floating pole, which moves freely up and down independently of the machine and thus relieves the horses of neck-weight. This arrangement also eliminates the necessity and the extra expense for a foretruck. Without a foretruck, the transporting or depth gauge wheels are free to follow the contour of the ground at all times, and being in line with the spider wheels, the entire machine always cultivates at even depth, regardless of the condition of the ground.

The entire machine is built in the most substantial way, to render years of good service. Split wood bearings at the ends of gangs greatly simplify replacement of worn parts. Three bolts will release bearings at end of any gang.

SIZES AND WEIGHTS

Cutting width	7 feet	2-horse	Weight 801 pounds	Without Neck Yoke.....	\$86.00
Cutting width	7 feet	3-horse	Weight 839 pounds	With Neck Yoke.....	94.50
Furnished with Tongue Truck if desired, additional.....					13.75

MASSEY-HARRIS DRILL

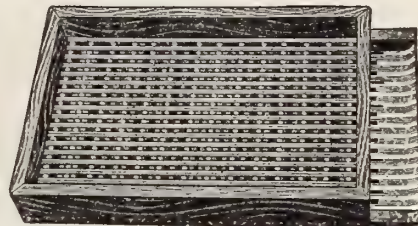


Main frame is equal to severest strains. It is bent from a single high-grade steel angle to form three sides of a rectangular figure. Its corners are reinforced by steel plates, and its two sides or ends are tied by a high carbon I-beam. In addition, the beam and frame are tied near their centers by two angle bars which extend beyond the beam sufficiently to furnish a support for the continuous steel axle. The frame, corner plates, I-beam and angle bars, all are riveted together in the most substantial manner. On this exceptionally strong frame the hopper is mounted with steel brackets and is further secured by a tie bolt. The result is an exceedingly strong and rigid construction which keeps all parts in perfect alignment. **Direct positive drive from both wheels.**

Size	Price	With Grass Seeder	Size	Price	With Grass Seeder
9 Disc....	\$143.75	\$150.15	9 Spring Hoe....	\$137.50	\$143.90
11 Disc....	162.00	169.80	11 Spring Hoe....	154.50	162.30
13 Disc....	180.75	190.00	13 Spring Hoe....	172.25	182.50

PERFECTION CORN GRADER

NO ONE WHO PLANTS CORN CAN AFFORD TO BE WITHOUT A CORN GRADER.



Every farmer now knows his seed corn should be graded. No planter will drop right with ungraded seed.

Graded seed insures perfect dropping, stronger plants, and increases the yield 5 to 15 bushels per acre. This has been proved over and over by the Experiment Stations and by thousands of farmers.

List Price, \$24.00 Dozen.

Our Special Price, \$1.25 Each.

GENUINE No. 2 HAINES ROW MARKER



The Genuine No. 2 Haines Marker has been greatly improved for this season. Among the changes made is in the disc hanger being in two parts. When the bearing becomes worn it may be replaced at small cost. The top of hanger has teeth cast all around the top, so that any angle may be had. The frame of the Marker has improvements and has been strengthened. The lever and quadrant have been re-designed.

The Marker is made in three sizes for two, three and four rows.

All these improvements have been added to make the Marker thoroughly up-to-date. Look the Genuine No. 2 Haines Marker over before you buy and you will make no mistake.

The Marker can be regulated to open rows at any depth required by the use of the lever in front of the operator and may be adjusted while the machine is in motion.

The Marker is of light draught and easily controlled by a light boy as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The Marker is a perfect covering or listing machine, covering one or more rows as may be required and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

Two Row Marker.....	\$37.60
Three Row Marker.....	44.00

VIRGINIA ROW MARKER

Very useful for farmers and gardeners for marking corn and potato rows. Fitted with extra side plates on runner.



No. 2—2 Row, will mark 3 to 5 feet in width (every 3 inches).....	\$16.00
No. 3—3 Row, will mark 3 to 5 feet.....	20.00

THREE ROW SHOVEL MARKER



3 Row Shovel Marker....\$18.00

Cole "Labor-Saver" Plow and Fertilizer Distributor No. 60

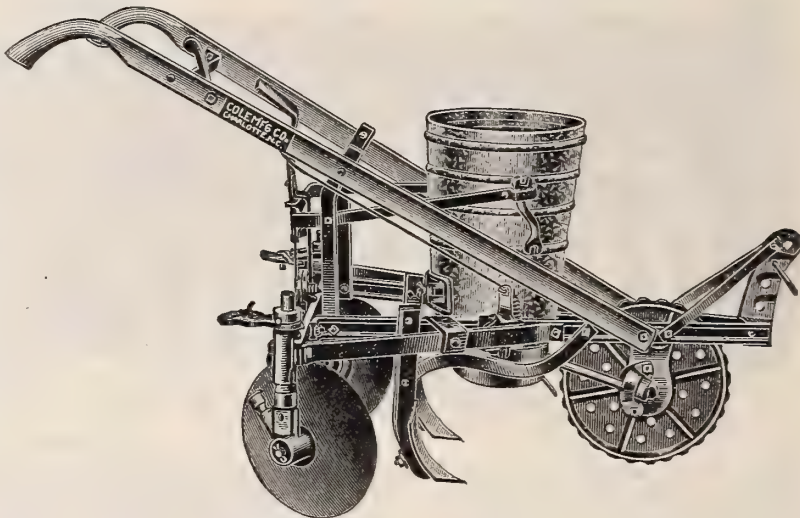
The Disc arms are connected by rods to a lever so that by means of this Handy Lever the Discs can be **instantly set** to cut at the **correct angle** and **both Discs** always at the **same angle**. By a turn of the same Lever you set the **Discs in line** like wheels, making it **carry itself** to or from the field.

The **distance** between the Discs is **adjustable** so you can make a **narrow bed** or a **wider bed**. You can set these **Steel Discs** of **special concavity** to make **flat beds** or **high beds**. The two **Plows** thoroughly **break the land** on each side of the open furrow and **mix the fertilizer** with the soil.

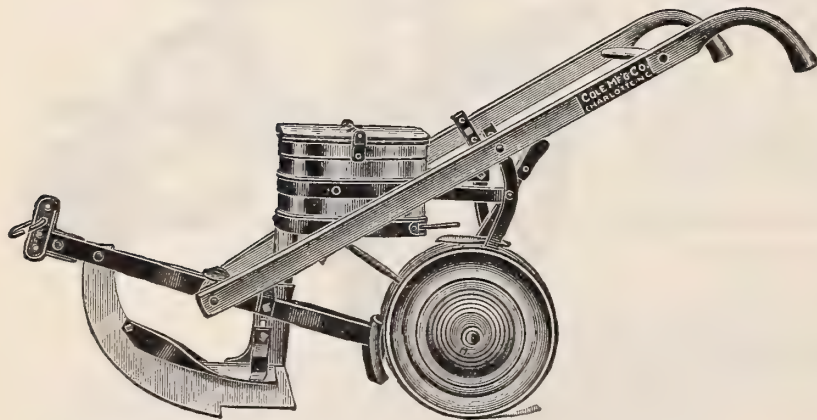
Remember this: The Cole "Labor-Saver" No. 60 puts out the fertilizer, mixes it with the soil and makes a bed ready for the planter at one trip.

The **Fertilizer Attachment** has the Cole patented **Force Feed** that will put out **evenly** and **accurately** any kind of fertilizer and any quantity **up to 3,000 pounds per acre**. The Hopper is made of **Copper Bearing Rust and Acid resisting Galvanized Steel**. It **spreads the fertilizer** over a space of about **10 inches wide** and it falls where the **plows mix it with the soil** so as to get the **best results** from the fertilizer.

Price, \$24.00



Cole Plain View Planter No. 11



Four seed plates and four distance gears furnished free with each planter.

Plants all kinds of seeds.

The Cole Plain View Planter is the most wonderful invention in seed planters. The perfect seed planter. Most accurate and reliable corn planter ever made.

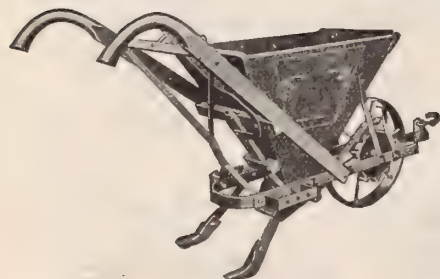
Not only excels for corn, but it successfully plants a great variety of seed, above turnip seed size. Perfect for beans and peas. Plants any distance up to 12 feet.

Seed plates and distance can be easily changed by loosening thumb nuts.

No. 11—Plain Planter.....\$24.00

No. 12—Fertilizer Planter.. 28.00

Farmers' Favorite One-Horse Fertilizer Distributor



FARMERS' FAVORITE One-Horse Fertilizer Distributer is especially constructed for sowing all kinds of **Commercial Fertilizers, Lime, Landplaster and Wood ashes**, but will in fact sow practically everything of a fertilizing nature.

Commercial Fertilizers can be sown with this machine in quantities of from **200 to 2400 pounds per acre**.

The **Feed Device** is of **simplerocking** construction, operated by the action of a **weighted knocker** over a **toothed wheel** working in connection with the ground wheel.

These machines are very simple and durable and distribute the fertilizer evenly and uniformly.

Price, \$11.50

MASSEY-HARRIS POWER DRIVE CORN PLANTER

The value of a corn planter depends on the accuracy of the drop—the ability to drop uniformly under varying conditions. The drop of the Massey-Harris planters is as near 100% perfect as it is possible to obtain.

Our variable drop device, regularly supplied, enables the operator to vary the number of kernels in each hill according to the fertility of the soil. A lever in front of the seat can be shifted to drop 2, 3 or 4 kernels in the hill.

An alternate drop arrangement permits of further variation, if desired. This enables operator to drop 1 and 2, 2 and 3, or 3 and 4 kernels to the hill, if the planting range of the regular variable drop is not adequate.

A "step drop" or "hill drop" device can be attached, which enables a man to plant the corn in hills without the use of wire. It provides a range of 2, 3 or 4 kernels to a hill dropped at any distance from 24 to 50 inches as desired.

The round-hole plate we use for all kinds of corn kernels.

We can furnish plates with holes to fit small, medium and large corn. A wider range of kernel sizes can be handled with these plates than any other planter made and still obtain surprisingly high accuracy. This is due to our patented primary and secondary cut-offs.

Regular equipment of check rower runner planters includes:—Round or stub type runner, as ordered, open or concave tire wheels, optional. Also supplied with automatic reel, anchor stakes. 80 rods of wire, and disc marker.

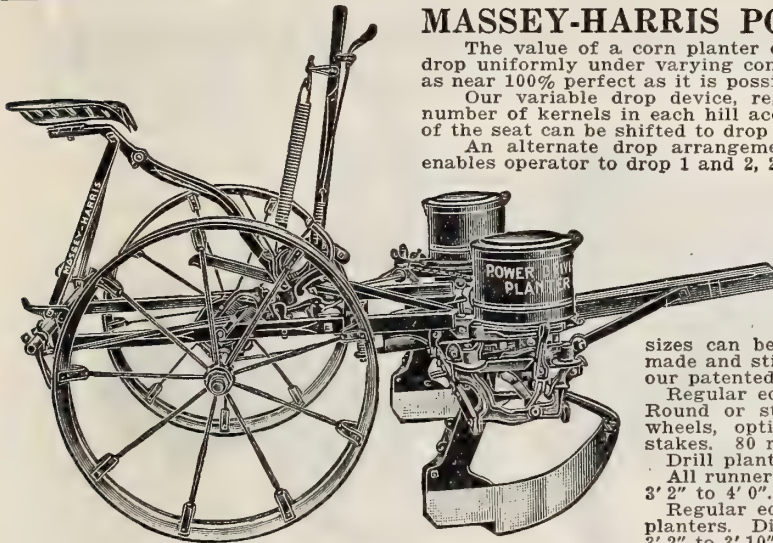
Drill planters are furnished with disc marker.

All runner planters are shipped set at 3' 6" and adjustable from 3' 2" to 4' 0".

Regular equipment of disc planters is the same as for runner planters. Disc planters come set at 3' 6", but are adjustable from 3' 2" to 3' 10".

SPECIFICATIONS

Style No.	Description	Runners	Wheels	Weight	Price
No. 2 RH	Check Rower, Drill and Foot-Drop	Round	30"	522	\$79.50
No. 3 RH	Drill and Foot-Drop	Round	20"	416	63.00
No. 6	Drill Only	Round	30"	355	63.00
	Fertilizer Attachment			100	24.75
	Step Drop Attachment				2.25



Massey Harris Transplanter

SAVE TIME, LABOR AND GIVE YOU STRONGER PLANTS

It isn't necessary today to convince any intelligent farmer who grows tobacco, cabbage, tomatoes, strawberries, sweet potatoes, nursery stock—any kind of plants that require transplanting—that it pays to use a good transplanter. It is now generally known that plants transplanted when the ground is dry have a more rapid growth and are stronger and healthier than those transplanted when there is a season in the ground.

With a Massey-Harris Transplanter you can set your plants when they are just the right size. You know the danger of transplanting when plants get too large on account of waiting for a season. You can't afford to run that risk.

You avoid tramping and packing the ground around the newly set plant.

You avoid putting the water on top of the ground, which causes the ground to bake and crack and you don't have to hoe around the plants, as you have to when you water them by hand.

You can pack the soil around the roots, so that the plant gets a good start in life.

CONVENIENT PRESSURE LEVER

The pressure lever, within convenient reach of either of the plant setters, controls the pressure of the press wheels in pressing the earth about the roots of the plant.

PRESS WHEELS

Press wheels which are adapted to moist soils. Coil springs allow the wheels to follow any unevenness of ground and make the work uniform. The angle of the wheels can be changed to suit soil conditions.

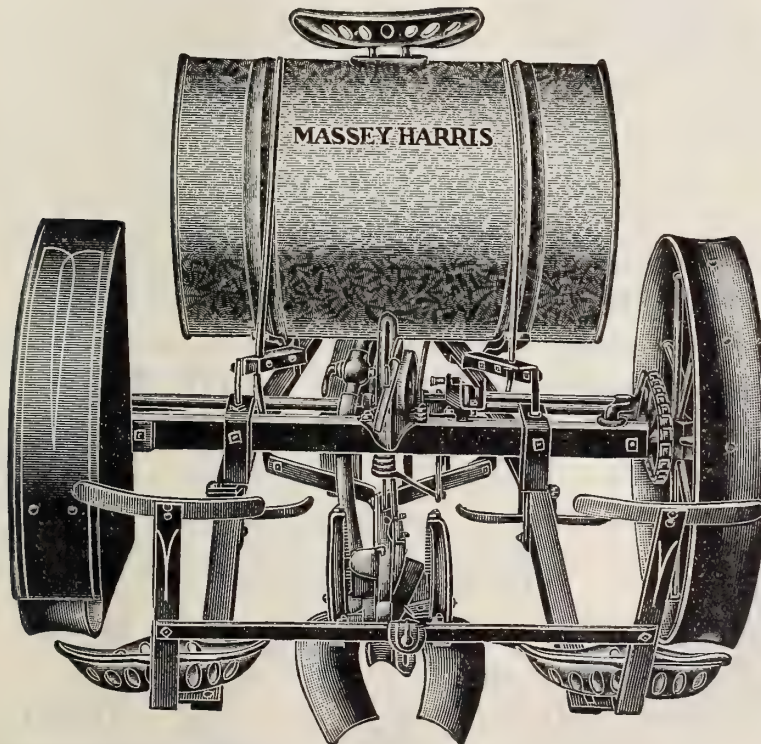
ADJUSTABLE WATER SUPPLY

The water supply is easily and quickly adjusted by a guide through which the trip rod passes. Raising the guide increases the flow of water, lowering it lessens the flow.

Deep, medium or shallow runners can be furnished. The runner is forced into the ground by a powerful spring attached to the raising lever, and can be set at depth desired.

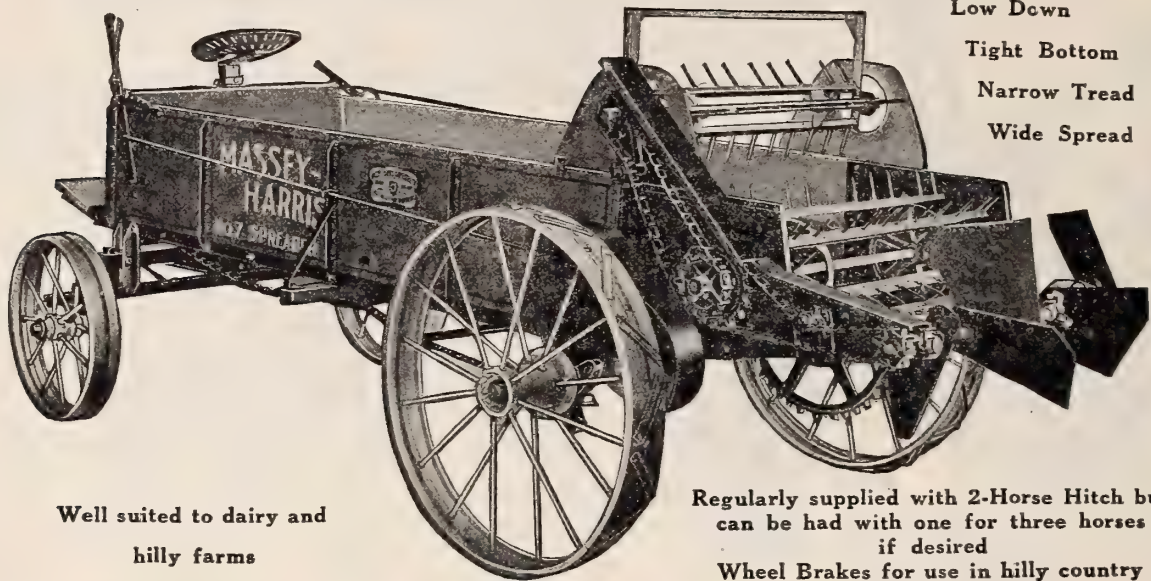
RIGID POLE A GOOD FEATURE

The rigid pole does away with danger of breaking any parts in turning at the end of the rows. With a flexible tongue, you must unlatch it before you dare to turn around. Furthermore, with a flexible pole, it is hard to get the machine lined up at the end of the row before you start to plant another row. With the Massey-Harris rigid pole you turn around just as you do with a cultivator.



PRICE, \$95.75.
Fertilizer Attachment, \$16.25

Massey-Harris No. 7 Light Draft Manure Spreader



Low Down

Tight Bottom

Narrow Tread

Wide Spread

Well suited to dairy and
hilly farms

Regularly supplied with 2-Horse Hitch but
can be had with one for three horses
if desired
Wheel Brakes for use in hilly country
are available

All kinds of manures are handled to advantage with this machine. It has a tight bottom, is low down, is easy to load, is easy to draw and is narrow enough to be taken into the stable for loading if desired. Besides, it is built according to a design which has proven to be both practical and efficient. It is well adapted to every use to which a spreader can be put and furnishes splendid equipment. The front bolster is made in trussed form from steel angles of 3 in. by 2 in. by 3/16 in. dimensions and is so placed that the wheels come directly under the load. It extends the full width of the box and is securely bolted to the side sills, thus forming an additional tie for the bed and giving the frame added strength. A lathe cut cold rolled steel shaft 1 1/4 inches in diameter furnishes the rear steel axle which turns in large cast boxes that are bolted directly to the sills.

Auto truck at front. The front wheels track with the rear ones and are mounted in the front bolster on 1 1/2 in. cold rolled steel stub axles similarly to the front wheels of an automobile.

Abundant power for every condition is generated by the rear wheels, both of which are drivers. These wheels are 40 inches high with 5 1/2 inch flanged tires.

Two beaters and a wide spread distributor do the pulverizing and spreading. Friction is minimized by the use of self-aligning bearings.

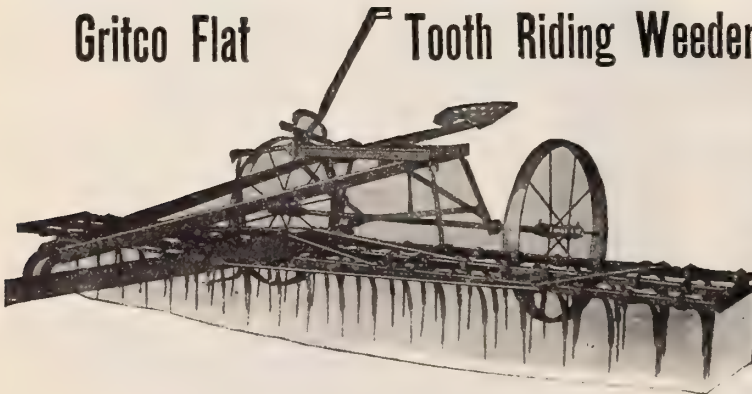
Power for the beaters is furnished direct from a large sprocket by a heavy pin link chain.

An endless conveyor made up of two chains and several angle steel bars which are riveted to the chain, moves the load to the beaters.

By simply shifting the feed lever it is possible to spread at the rate of 8, 12, 16 or 20 loads to the acre as may be desired.

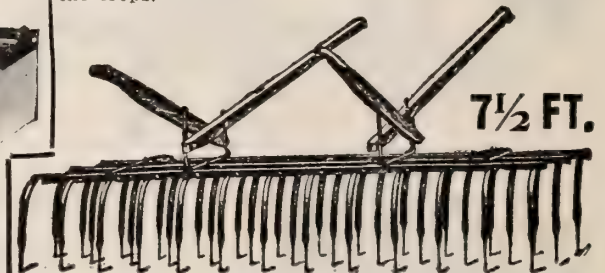
PRICE: With 2 Horse Hitch, \$166.25; With 3 Horse Hitch, \$171.25; Wheel Brakes, \$7.85.

Gritco Flat Tooth Riding Weeder



GRITCO FLAT TOOTH WEEDER

By the use of Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or wet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops.



7 1/2 FT.

	Price
12-foot Weeder, with Pole instead of Shafts. No double trees, no neck yoke.....	\$43.00
Regular Trees and Yoke.....	2.75
Extra Wide Trees and Yoke.....	3.50

	Price
7 1/2-foot Gritco Flat-Tooth Weeder.....	\$12.00
9-foot Gritco Flat-Tooth Weeder.....	14.00
Extra Teeth.....	.25

MASSEY-HARRIS FARMER BOY SULKY PLOW

Here is a simple, light draft, easily handled low-lift sulky plow that meets certain field conditions in an ideal way. This sulky plow takes and leaves the ground first, just like a walking plow. It is constructed so that any depth desired can be plowed. The first furrow can be plowed eight or nine inches deep.

One of the principal features of this plow is that it is self-leveling. When once leveled and in plowing position only the larger lever, as shown in the illustration, is used to raise or lower the bottom.

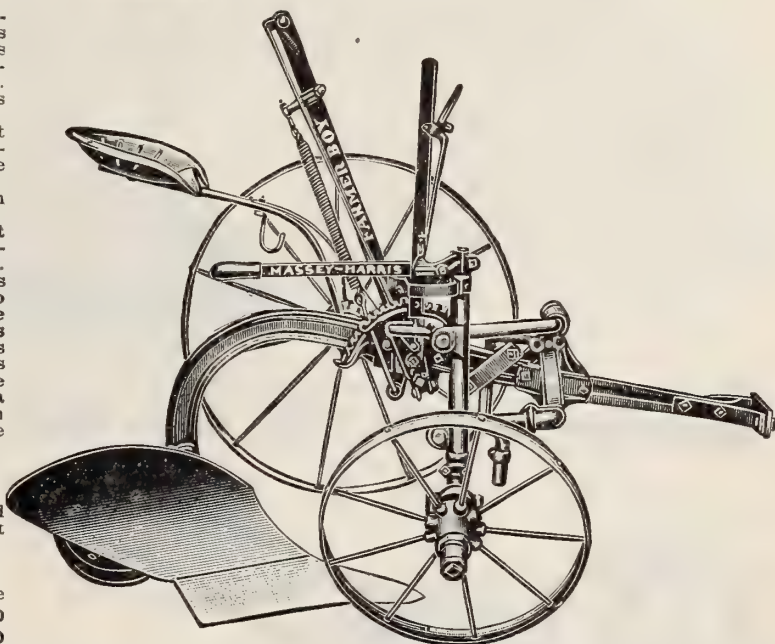
The penetration lever assures perfect penetration at all times.

The front furrow wheel post has a double support which does away with necessity for a large, cumbersome brace, common in many low-lift sulky. The supports of this member are really double axles and work in sleeves. Their action is so timed as to raise and lower the plow on the front wheel the same as the land wheel, consequently the plow is kept level at all times. The rear furrow wheel has been converted into a small solid wheel which acts as a rolling landslide. This wheel runs in the angle of the furrow and holds the true landslide about a half inch from the furrow bank. There is no friction caused by the rubbing of the landslide against the furrow bank.

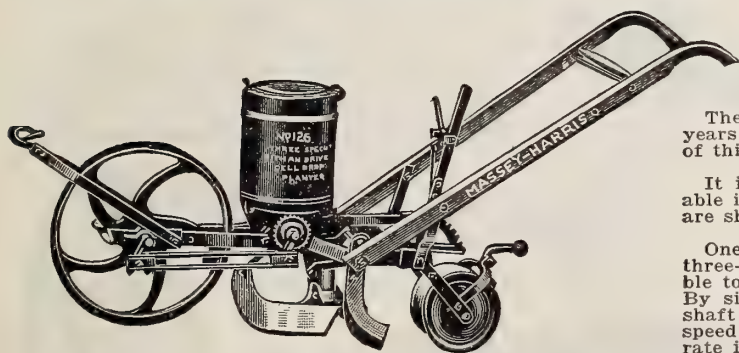
SPECIFICATIONS

A three horse hitch, adjustable caster colter and weed hook are furnished with each plow. Extra cast shares can be furnished.

Style Bottom	Width Cut	Style Moldboard	Wt.	Price
SG	14 inch	Turf and Stubble	420	\$65.00
SG	16 inch	Turf and Stubble	423	66.00



MASSEY-HARRIS 3-SPEED PITMAN DRIVE PLANTER



The three-speed Pitman drive planter is the climax of many years of study and experience in building high grade planters of this type.

It is short and compact, which makes it especially valuable in planting on steep slopes or terraced land where there are sharp curves.

One of the outstanding features of this planter is the three-speed cell-drop planting device, which makes it possible to change the planting rate without changing the plates. By simply sliding the movable pinion gear along the seed shaft to mesh with the desired ring of teeth on the triple-speed gear, which operates the seed plate, the proper seeding rate is obtained.

Pitman bearings are oil-soaked hardwood. Axles and seeding shafts are of heat treated steel. Bearings on the axle shaft are lined at inner and outer ends with leather washers, keeping oil in and dust out.

A ratchet on the drive wheel, automatically disengages drive when the planter is backed. A lever, conveniently located behind the hopper, permits throwing the planter in and out of gear.

A large 20-inch drive wheel provided with lugs insures plenty of traction. Handles are long and adjustable for height to accommodate a tall or short man.

This planter is also furnished with hill dropping attachment. This is a simple device that retains the accumulated hill in the seed spout valve until it is opened by a crank and the hill is dropped. A spring closes the valve.

Lugs spaced regularly on the hub of the drive wheel trip the valve crank to open the valve. Five lugs are furnished and when all are used the spacing distance between the hills is 12 in. with 4 lugs the distance is 15 in. With 3 lugs the distance is 20 in., and with 2 lugs the distance is 30 in.

To convert this hill drop planter to a plain drill, it is only necessary to lock the valve open. A latch to hold up the valve crank is provided for this purpose.

No. 225 Planter with Shovel Opener, Shovel Coverers, both Variable and Hill Drop.....\$21.00

No. 226 Planter with Runner, Covering Blades, Press Wheel, Raising and Lowering Lever, both Variable and Hill Drop..... 24.00

All bearings are held in positive alignment by a one-piece frame which is accurately bored in one operation by a lathe especially designed for the purpose.

Power is evenly applied from both wheels.

Strong, perfectly meshed gears transmit the power to the knife with comparatively no friction loss. Being made with large teeth, they wear long.

Splendid balance obtains. The gearing is located back of the axle, where, aided by drawing the machine from beneath the pole, it successfully balances the cutting apparatus.

The knife works without clogging. Its head travels in a close fitting bearing on the inner shoe for which the head is specially milled and its sections are held to their work by a series of malleable clips.

Self-aligning pitman bearings, consisting of a double spoon at the lower end of the pitman which clasps the ball of the knife head and a double cone at the upper end which swivels in the pitman box, keep the pitman and knife properly aligned at all times.

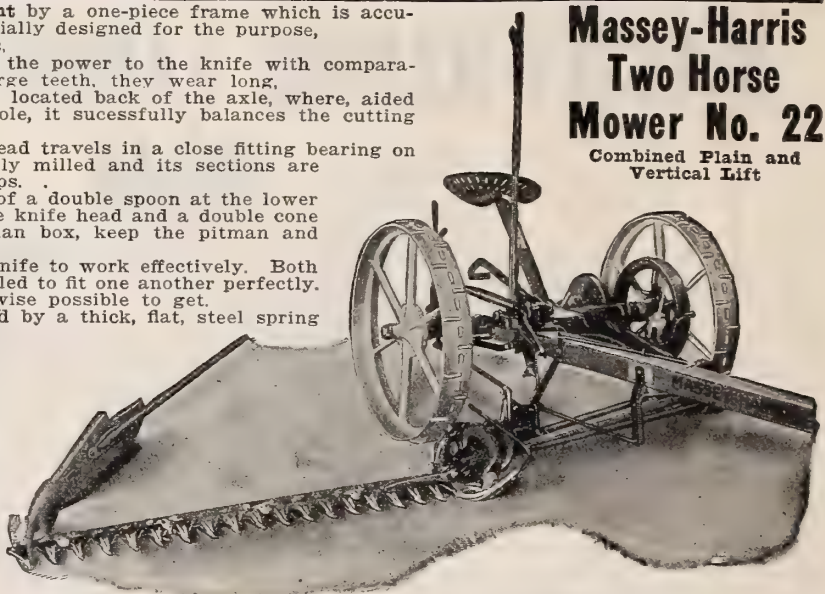
A perfectly lined cutter bar enables the knife to work effectively. Both the guards and the bar itself are planed or milled to fit one another perfectly. This assures an alignment that is not otherwise possible to get.

The swathboard vibrates. It is controlled by a thick, flat, steel spring which imparts a vibratory motion to it and thus enables it to always clear a good track without bunching the hay.

Ample speed to cut clean. The speed of the gearing is such that the forward advance of the cutter bar is only about 1 1/4 inches for each stroke of the knife. Clean cutting is thus always assured and yet because of the high, broad-faced, well-lugged wheels, the perfect alignment of all parts, the splendid balance and the use of roller and self-aligning bearings, the draft is never excessive.

4 1/2 Ft. \$85.00

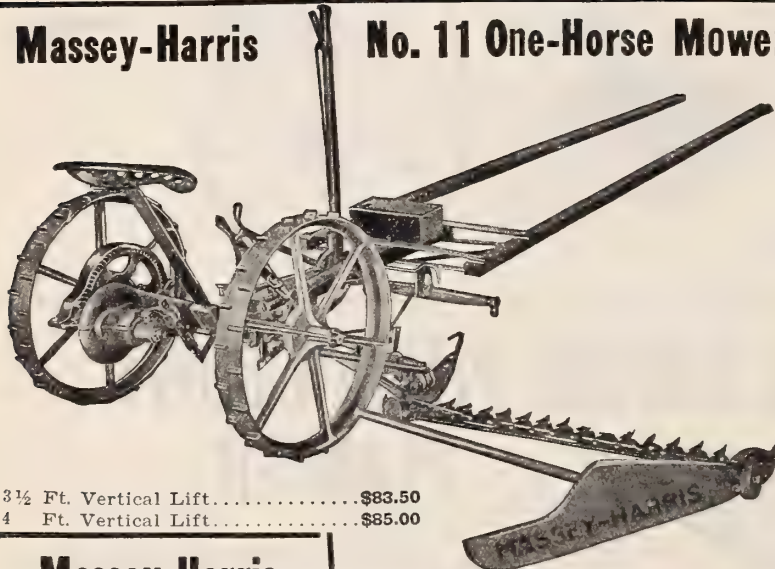
5 Ft. 86.50



Massey-Harris
Two Horse
Mower No. 22
Combined Plain and
Vertical Lift

Massey-Harris

No. 11 One-Horse Mower



3 1/2 Ft. Vertical Lift.....\$83.50

4 Ft. Vertical Lift.....\$85.00

This mower is especially designed for a strictly one-horse machine and well supplies the need of those who require one of that kind. It has ample weight and traction to cut all kinds of hay crops and yet, is of such construction that one horse handles it easily. Light draft is one of its salient features and in combination with power and durability, makes it good equipment.

Main frame is in one piece, accurately bored to hold the gears and shafting in positive alignment.

Roller bearings are used for both the main axle and the cross shaft where they reduce the friction to a minimum.

A simple, powerful gearing system located back of the main axle, where it counteracts the weight of the cutting apparatus, transmits the power to the knives through a crank shaft which is fitted with separate removable boxes—a brass one at the front and a self-aligning cast iron one at the rear.

Cutter bar is of cold rolled steel fitted with malleable guards and shoes all of which are carefully aligned to insure the knife working properly. Steel plates take the wear of the knife and malleable Caps hold it in line.

Convenient levers control the bar and enable placing it in any position that may be necessary. If desired, you can, by means of the raising lever, fold the bar to a vertical position without getting out of the seat. A simple automatic throw-out device, mounted on the bevel wheel shaft, works in connection with the lever.

Massey-Harris **Steel Hay Rake**

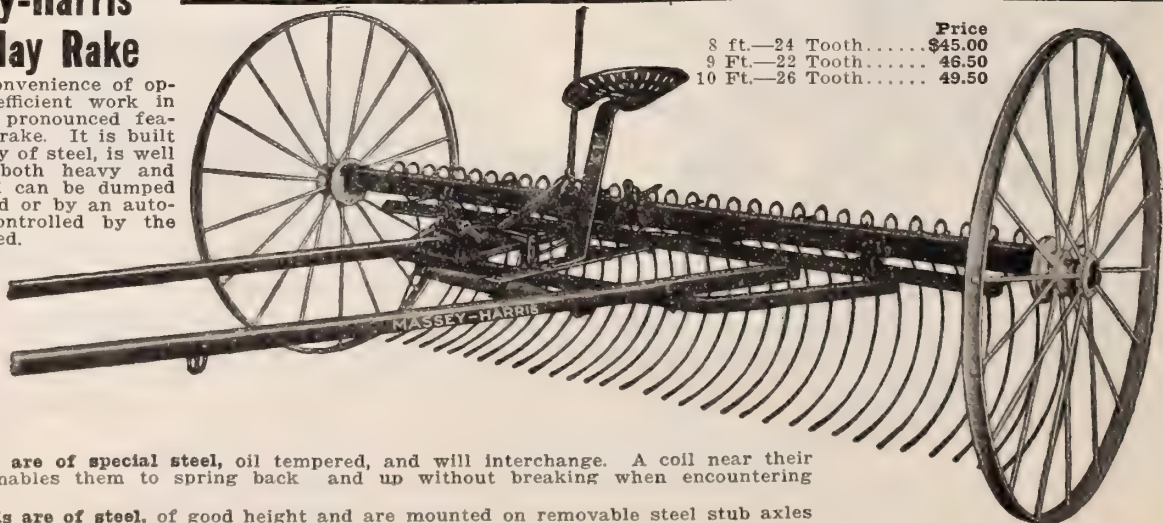
Strength, convenience of operation and efficient work in the field are pronounced features of this rake. It is built almost entirely of steel, is well adapted for both heavy and light hay and can be dumped either by hand or by an automatic trip controlled by the foot, as desired.

Stiff, steel angles are used for both rake head and the draw frame.

The trip rod is of high carbon steel, in one piece, and is well supported.

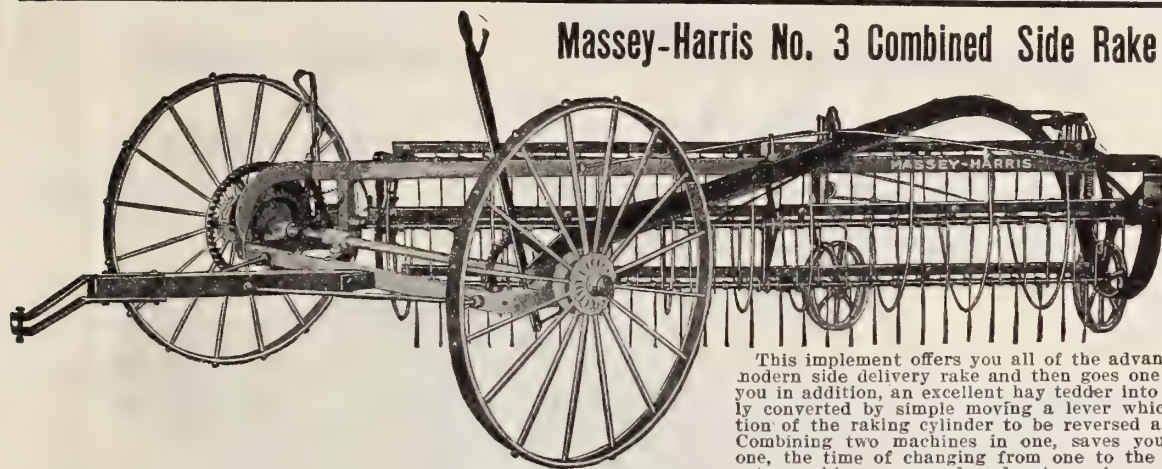
The teeth are of special steel, oil tempered, and will interchange. A coil near their upper ends enables them to spring back and up without breaking when encountering obstructions.

The wheels are of steel, of good height and are mounted on removable steel stub axles which are securely fastened to the rake head.



Price
8 ft.—24 Tooth.....\$45.00
9 Ft.—22 Tooth..... 46.50
10 Ft.—26 Tooth..... 49.50

Massey-Harris No. 3 Combined Side Rake and Tedder

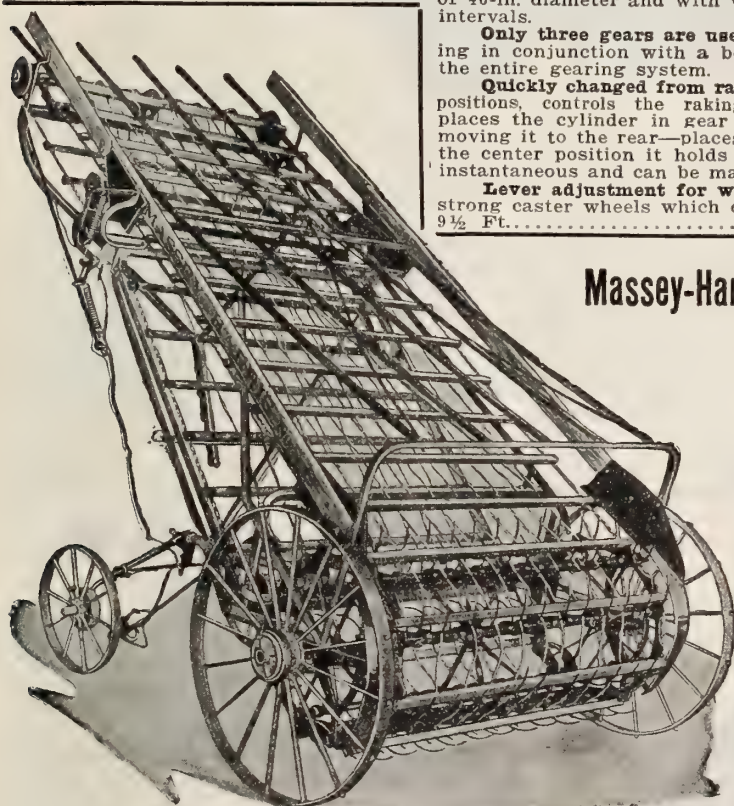


Foundation is substantial. A very strong main frame of high carbon angle steel, well-braced and trussed, carries the raking cylinder in detachable, easy running bearings, and holds all parts in perfect alignment, giving the machine light draft and long life. Power is applied from both sides by two strong, steel main wheels of 46-in. diameter and with wide tires on which traction spuds are placed at frequent intervals.

Only three gears are used. A raking and a tedding gear on the main axle, working in conjunction with a bevel pinion on the axle of the raking cylinder, comprise the entire gearing system.

Quickly changed from rake to tedder. A convenient lever, having a range of three positions, controls the raking cylinder. Moving this lever to the forward position places the cylinder in gear at the lower speed of raking. Reversing its position—moving it to the rear—places the cylinder in gear at the higher speed for tedding. At the center position it holds the cylinder out of gear. These changes are practically instantaneous and can be made by the operator from the seat.

Lever adjustment for working height. At the rear the frame is carried by two strong caster wheels which can be quickly adjusted to carry it at any height desired. 9 1/2 Ft. \$120.00



Massey-Harris No. 5 Drop Deck Cylinder Hay Loader

This latest addition to the Massey-Harris line of warranted farm implements has already proven to be the leader of the new class of hay loading machinery. Has the Drop Deck feature now so greatly in demand by modern farmers. The deck has been built as strong as possible and is carried by an angle steel support as can be easily seen from the illustration. This method of support has proven to be the most successful yet designed. The sides and wind break hinge with the deck and, by simply dropping the deck to its lowest position, you can store the machine in a shed with a clearance of only 8 ft. 10 in. By removing one pin the forecarriage can be detached so that the loader can be stored in a building having a clearance of less than 7 ft. These are points of particular interest when you realize that the ordinary loader requires almost 11 ft. clearance for storage. Strong coil springs carry the deck and it can be easily raised without getting down from the load. A special folder describing the machine in detail is yours for the asking.

Price \$129.00

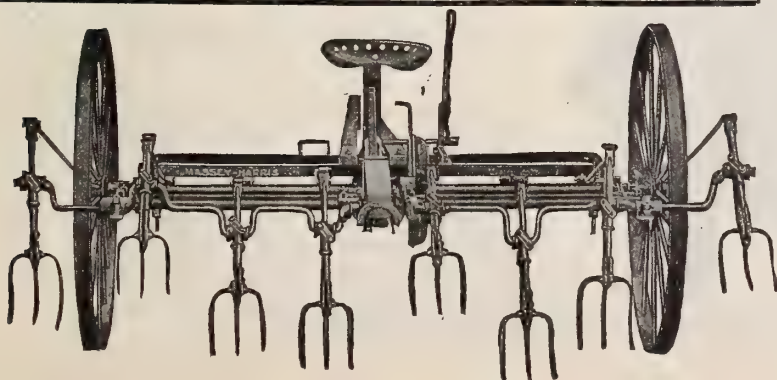
Massey-Harris Steel Hay Tedder

Good hay under the most adverse conditions is possible when the services of this implement are employed. It kicks up the swath into a loose, fluffy mass through which the air circulates freely, with the result the curing process is hastened and hay of a high quality is obtained. And besides, it's built in such a way that it will give many years of satisfactory service.

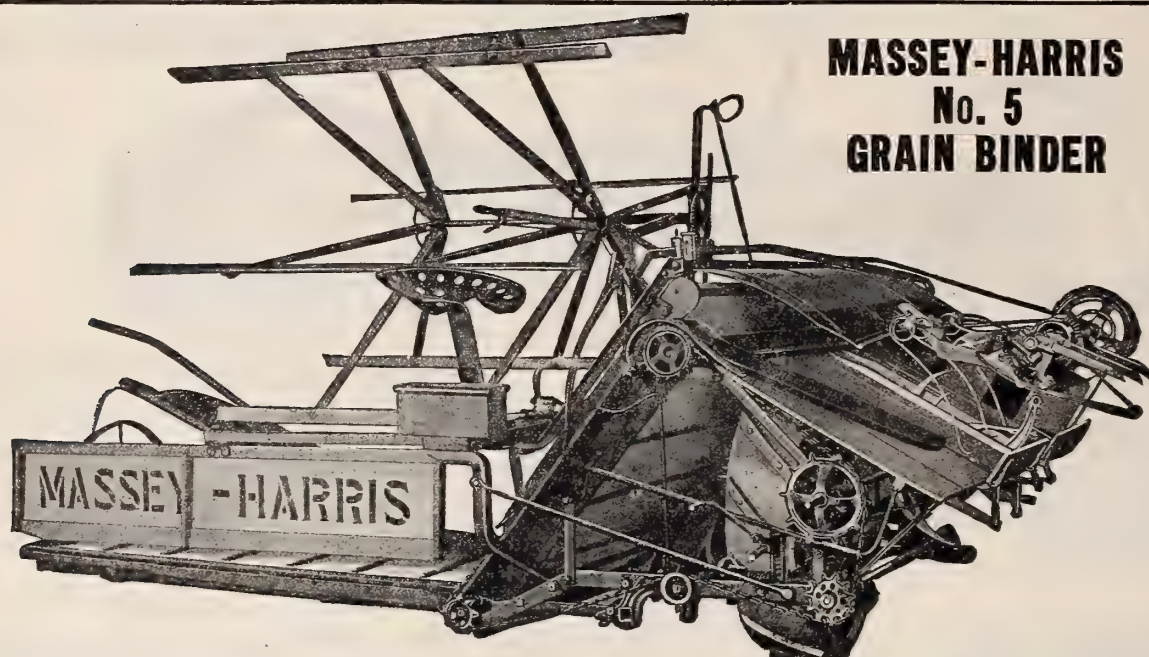
Four steel angle frame sills, tied by a steel angle cross beam and two heavy steel pipes, furnish the foundation.

It is built in two sizes, 6-fork and 8-fork, and is regularly supplied with forks of three tines each.

High, interchangeable, steel wheels, with large hubs and wide channel tires (concave side out) give ample traction. Power is applied simultaneously from both sides.



6 Fork.....	\$75.00
8 Fork.....	85.00
2 Horse Hitch with neck yoke.....	3.00



**MASSEY-HARRIS
No. 5
GRAIN BINDER**

You can rely upon this binder, absolutely, to withstand the hardest kind of work incident to the harvesting of a grain crop. It is built for use with either horses or tractors and is made to give you satisfaction in every respect. Right from its foundation up through every part of its structure it is built for service, the principle of its design is correct, none of the materials are skimped and the manufacturing operations are most carefully performed.

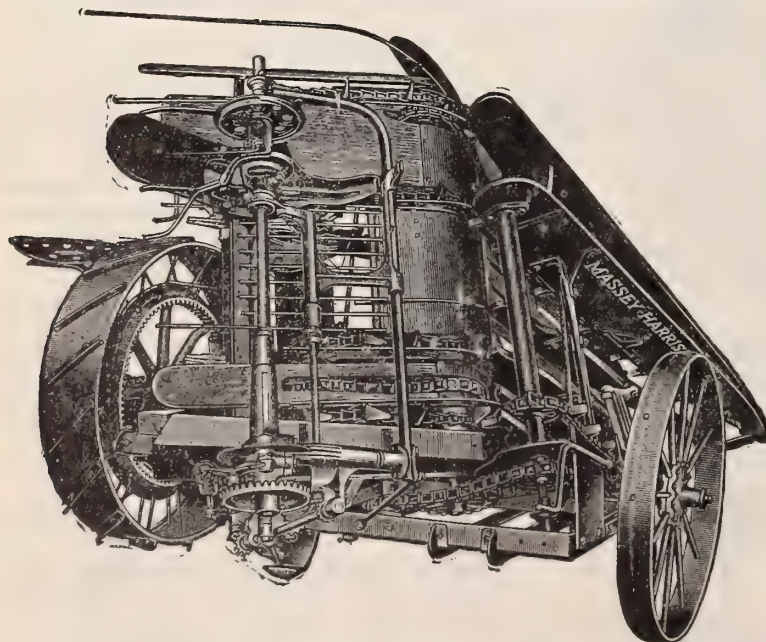
Main frame is trussed like a bridge. Seldom in agricultural implement construction do you find a frame which has the strength and rigidity of this one. Lengthwise and crosswise, it is made up of a series of high carbon steel truss-like forms which are so arranged and united that the strength of each one is contributed to and supplemented by that of the others. Indeed, so substantially is it tied, trussed and reinforced at every supporting point there isn't the least chance of sagging, twisting or any other kind of distortion, and a positive alignment of all bearings is assured.

Roller and self-aligning bearings lighten the draft. Special care has been exercised to provide bearings that would insure light draft and long life. For both the main and the grain wheels for the cross and crank shafts, and for the rollers that drive the elevators, roller bearings in cages are used. Then, in addition, self-aligning boxes are provided wherever they are of advantage, as at the rear of the crank shaft, at the sprocket end of the inner platform roller, etc. Friction is minimized at every bearing point.

The platform is of good width for handling the different crops and is representative of great strength and rigidity. It is reinforced at the under side by angle steel ribs to which it is securely riveted and at the grain wheel end by a trussed construction—one of the strongest forms possible. It is also substantially reinforced where it connects to the main frame. These various reinforcements are further supplemented by a steel T cutter bar which prevents sagging and retains the alignment of the guards.

6 Foot with Bundle Carrier and 3-Horse Hitch.....\$216.00
7 Foot with Bundle Carrier and 3-Horse Hitch..... 222.50
8 Foot with Bundle Carrier and Tongue Truck..... 249.25

6 Foot with Tractor Hitch.....\$216.00
7 Foot with Tractor Hitch..... 222.50
8 Foot with Tractor Hitch..... 230.50



**MASSEY-HARRIS No. 3A
CORN BINDER**

Whether your corn is the large firm varieties which stand erect; the supple, spindly kind that often become lodged; or the short growths which are mixed with grassy bottoms, this machine will harvest it to your entire satisfaction. It is of an improved type and has several exclusive features of considerable merit outstanding among which is a wider range of adjustment for accommodating all heights and kinds of corn than is found in other machines of its class.

Built low with stable foundation. No corn binder of greater stability than this one is on the market.

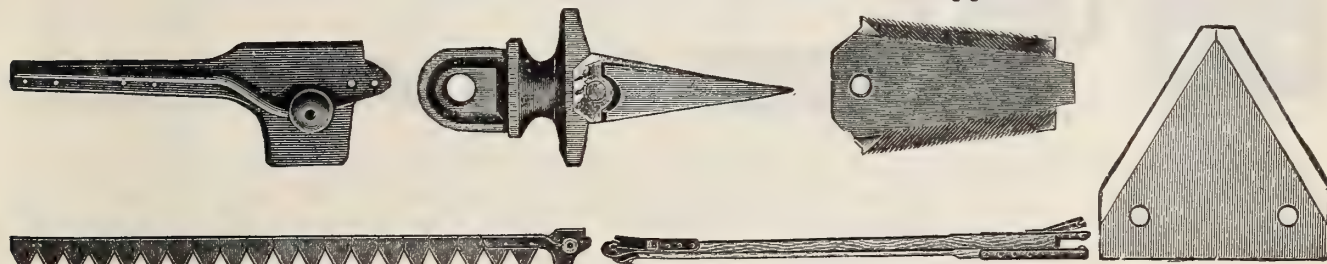
The largest drive wheel used on a corn binder generates the power. This wheel stands 40 inches in height, has a 9-inch face, and is well lugged.

Cutting apparatus is simple and efficient. It consists of only two stationary knives, one on each side, and a single section sliding knife which is driven by a steel pitman.

No. 3A with Bundle Carrier.....\$216.00

Mower and Binder Extras to Fit Leading Machines

Parts for Older Machines Can Also Be Supplied



By following the name of machine across the page, you can find correct number of part wanted.

WHEN ORDERING Mower Knives and Sickles always state number of Knife Head, and how many cutting sections on Knife.

Name of Mower	No. of Knife Head	Section	No. of Guard	No. of Guard Plate	No. of Pitman	No. of Pitman Box	Price Pitman Box
Adriance (Buckeye).....	557F	745	3087D	716 1/2 C	3032H	61K	\$.80
Champion, New Draw Cut; 1905-12.	A870	MA333	A881	H253	Steel	AA1018	1.60
Champion Imp. and V. L.; 1909 since	A5792	MB333	AA881	H253	Steel	A1133	1.60
Deere, Dain Mower; 1895-1919.....	Z45	Z5059	Z1	Z5110	Z5076	Z205	.80
Deere Mowers; 1923 and since.....	Z502	Z5571	Z463H	Z5110	Z5661	Z513	.80
Deering, Ideal, Steel Pitman.....	F123	D1140	D442	D1043	Steel	D334	1.00
Deering, Ideal, Wood Pitman.....	D463	D1140	D698	D1739	D2907	D608	.65
Emerson, Standard; 1900 and since.	M203	M193S	M614	M301S	Z397	M517	.80
Emerson, 6 and 7-ft.; 1909 and since	M204	M193S	M614	M301S	Z397	M517	.80
Johnston; 1909 and since.....	2211	920	1811	912	2228C	2207C	.65
Massey-Harris No. 11, one horse...	919	920	1811	912	304X	256	.70
Massey-Harris No. 20 and 21.....	M802	M2492	M803	M2494	7120	M800 1/2	.70
Massey-Harris No. 22.....	M802	M2492	M803	M2494	7120	M800 1/2	.70
McCormick; 1888-1909.....	M139	MA333	M462	M219 1/2	M392	M317	.65
McCormick; 1910 and since.....	M139	MB333	MD989	MA990	M392	MD317	.65
McCormick-Deering; 1923 and since.	MA139	MB333	MD989	MA990	M392	MD317	.65
Milwaukee, Chain Drive.....	PG6	PG155	PK5S	P201S	PV290	PJ50	.60
Moline-Adriance	557F	745	3087H	716 1/2 C	3032H	61K	.80
Osborne, Columbia; 1902-05.....	K284	K223	K280	K322	Steel	K826	.80
Osborne, Nos. 1, 2 and 3; 1905, since	K774	5406	K790	11565	J9439 1/2	KA1158	.80
Thomas-Crown; 1888-1923	6	1077	03	1046	1069	257	.70
Thomas-New Crown; 1924 and since	CM402	1077	CM3	1238	1245	CM25	.70
Wood-Admiral; 1907-14.....	2862	3410	L	9571	8965	2941	1.20
Wood, Vertical Lift; 1925, since....	K366	3410	L	9571	K3434	AK367	1.20

Name of Binder	No. of Knife Head	Section	No. of Guard	No. of Guard Plate	No. of Pitman	No. of Pitman Box	Price Pitman Box
Adriance No. 7; 1915 and since....	JA102	A84	2090	716 1/2 A	J1230		
Champion, Improved; 1909 and since	2564	G241	3025	G167	Steel		
Deere; 1914 and since.....	HZ493	B4053	HZ147	HZ5183	H29140		
Deering, Ideal; 1898 and since.....	H877	E1328	286	E1330	H1255		
Johnson-Continental	K306	L787	K307	K364	K118C		
Massey-Harris; 1915 and since....	S213	336A	S220	D157	S1032		
Milwaukee No. 12; 1907 and since..	SN342	SL877	SN37	SM681	SN844		
Moline; 1915 and since.....	JA102	A84	2090	716 1/2 A	J1230		
McCormick; 1911 and since.....	B756	762	HA495	H507	B763		
McCormick-Deering	BA756	762	HA495	H507	BA763		
Osborne; 1915 and since.....	C1044	11259	C752	11601	J9048		
Wood, New Century; 1917, since...	H2139	7268	H2620	H2620	C3373		

PRICES

Complete Knives, 4 1/2 feet.....	\$2.75	Mower Guards.....	\$3.35
Complete Knives, 5 feet.....	3.00	Binder Guards.....	.35
Complete Knives, 6 feet.....	3.25	Guard or Leger Plates.....	.06
Complete Knives, 7 feet.....	3.50	Wood Mower, Pitman's (Massey-Harris).....	3.25
Complete Knives, 8 feet.....	3.75	Wood Mower, Pitman's, all others.....	1.75
Knife Heads, Steel.....	.90	Wood Binder, Pitman's (McCormick).....	.90
Knife Heads, Malleable.....	.55	Wood Binder, Pitman's, all others.....	.75
Sections, per box of 25.....	1.75	Pitman Boxes (priced above).....	
Sections, each.....	.08	Guard Bolts.....	.05
Rivets, per pound.....	.15	Binder Canvas Slats.....	.10

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Mower and Binder Extras For Leading Machines



DAIN-DEERE Z5063



Name	No. of Pitman Bolt		No. of Pitman Strap		No. of Knife Clip	No. of Knife Cap		No. of Wearing Plate	
	Knife End	Box End	Knife End	Box End		Front	Rear	Under Clip	Under Cap
Adriance Buckeye.....	602C	607B	600-1E	605C	3093	3084	3086A	3094A	3098C
Champion Draw Cut.....	H609				A886	A816	A1163	A5859	A5857
Champion Improved.....	A5834				A1155	A1136	A1132	A5858	A5800
Deere-Dain	Z5040	Z5035	Z220-5	Z226	Z6	Z30	Z32	Z5064	Z5063
Deere	Z5040	Z5961	Z392-3	Z516	Z6060	Z6010	Z488	Z5925	Z5685
Deering	D2591	D2592	G211-2	G210	D927	D826	D984	D3012	D1455
Deering, 6 and 7 foot.....	D3079	D3078	G211-2	G210	D927	D826	D984	D3012	D1455
Emerson	Z381	Z382	M417-8	M568	M503	M528	M505		M665
Johnson	2251	2252	2208-9C	2210	1814C	1885	926	1813	904
McCormick	M483	M483 1/2	M147 M304	M315 M316	M463	M290	M652	M468	M490
McCormick-Deering	M483	M483 1/2	M147 M304	M315 M316	M1000	M1239	MA652	MA468	MA490
Milwaukee Chain Drive.....	PG175	PG175	PM34-5	PL9 1/2	PJ1	PH2	PM3	PK156	PG157
Moline	602C	607B	600-1C	605C	3093	3084C	3086A	3094A	3098C
Osborne	9959 1/2	9960 1/2	8131-2	8130	K665	K494	K792	13461	10009
Thomas Crown.....	1004	1005	55-6	57	317	10-CM329	B40		1091
Thomas New Crown.....	1117	1005	55-6	57	CM352	1219	B40	1239-40	1091
Wood, Admiral.....	A2148	9534	2853 2964	2834 2835	2865	2761	2959	K3139	K3138
Wood, Vertical Lift.....	K3435	K3460	K3438 K3439	K3433	2865	K364	K306	K3139	K3423
Massey-Harris	MA1706	M2571	M2489 M2490	M2491	M2292	M799	M2515 M2516	M2277	M2278

PRICES

Pitman Bolts.....	\$.15	Knife Clips.....	\$.15
Pitman Straps.....	.30	Wearing Plates.....	.15

Knife Caps on Application.

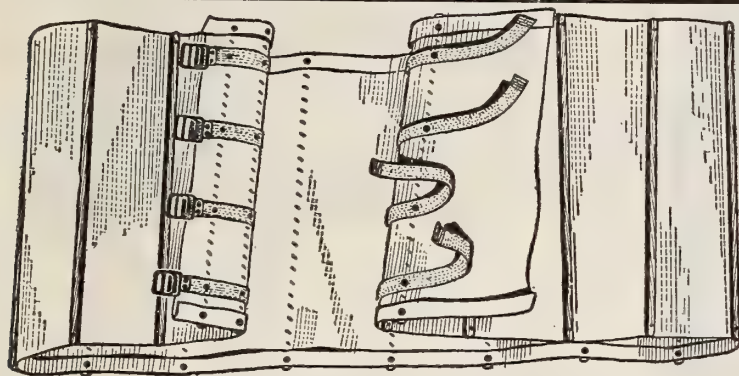
GEARS AND PINIONS



Dain—	
Z125, Bevel Gear.....	\$3.00
Z130, Bevel Pinion.....	.70
Deering Ideal—	
D356, Bevel Gear.....	3.50
D458, Bevel Pinion.....	.75
Deering New Ideal—	
D864, Bevel Gear.....	2.50
D865, Bevel Pinion.....	.75
D730, Spur Pinion.....	.85
D795, Bevel Gear.....	2.50
D989, Bevel Gear.....	2.50

Emerson—	
M522, Bevel Pinion.....	.75
McCormick New 4—	
M633, Spur Pinion.....	1.15
M635, Bevel Pinion.....	.75
M813, Bevel Gear.....	3.00
McCormick New Big 4—	
M837, Bevel Gear.....	3.00
M838, Bevel Pinion.....	.70
MA814, Clutch.....	1.00
M1400, Clutch.....	1.25
McCormick No. 6 Vertical—	
M1406, Spur Pinion.....	1.15
M1407, Bevel Gear.....	3.25
M1408, Bevel Pinion.....	.75
Thomas—	
65, Bevel Pinion.....	.75
301, Bevel Gear.....	2.25
302, Triple Gear.....	4.25
303, Drive Gear.....	3.50
20, Drive Gear.....	3.75
Wood—	
2525, Bevel Gear.....	3.70
2791, Bevel Pinion.....	1.15
2790, Spur Pinion.....	1.25

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



CONVEYOR CANVASES

ADRIANCE

No.		Year	Price
J1402	Upper Elevator, 90x45 1/2", No. 3 Left Hand Binders	1906-15	\$5.60
JA1401	Lower Elevator, 90x52", No. 3 Left Hand Binders	1906-15	5.85
2223A	6 ft. Platform, 137x41", No. 2 R.H. & 3 L.H. Binders	1897-15	7.75
2224A	7 ft. Platform, 158x41", No. 2 R.H. & 3 L.H. Binders	1897-15	9.00

CHAMPION

KA3145	Lower Elevator, 77x51 1/2", Improved Binders	1909-	5.60
KA3144	Upper Elevator, 96x43 3/4", Improved Binders	1909-	6.00
KA3147	6 ft. Platform, 137x43 3/4", Improved Binders	1909-	7.75
KA3148	7 ft. Platform, 157x43 3/4", Improved Binders	1909-	9.00
KA3149	8 ft. Platform, 185x43 3/4", Improved Binders	1909-	10.25

DEERE

HZ9040	6 ft. Platform, 135x44 3/4", Light Draft Binders	1911-	7.75
HZ9041	7 ft. Platform, 159x44 3/4", Light Draft Binders	1911-	9.00
HZ9043	Upper Elevator, 93x46 3/4", Light Draft Binders	1917-	5.60
HZ9402	Lower Elevator, 96x50 7/8", Light Draft Binders	1917-	5.85

DEERING

HA4562	Upper Elevator, 90x47", Ideal Binders	1908-	5.60
HA1775	Lower Elevator, 89x50 3/4", Ideal Binders	1899-	5.85
HA1772	6 ft. Platform, 133 1/2 x 43 3/4", Ideal Binders	1899-	7.75
HA1773	7 ft. Platform, 157 1/2 x 43 3/4", Ideal Binders	1899-	9.00

MCCORMICK

BD65	Upper Elevator, 91x47 1/4", R. & L. Binders	1901-	5.60
BA66	Lower Elevator, 97x51", R. & L. Binders	1901-13	6.00
BB835	Lower Elevator, 89x51", R. & L. Binders	1911-	5.85
BA466	5 ft. Platform, 110x45", R. & L. Binders	1901-	6.50
BC467	6 ft. Platform, 134x45", R. & L. Binders	1901-	7.75
BB468	7 ft. Platform, 158x45", R. & L. Binders	1901-	9.00

MASSEY-HARRIS

A1260	6 ft. Platform, 138x39", No. 5 Binders	1915-	7.75
A1261	7 ft. Platform, 162x39", No. 5 Binders	1915-	9.00
S1107	Lower Elevator, 88x53", No. 5 Binders		5.85
S1106	Upper Elevator, 84x50", No. 5 Binders		5.60

MILWAUKEE

SB400	Upper Elevator, 90x52 1/2", No. 10 Steel Jr. (SA400)	1899-20	5.60
SA401	Lower Elevator, 92 1/2 x 52 1/2", No. 10 Steel Jr. (S401)	1889-20	5.85
SA402	6 ft. Platform, 136x42 1/2", No. 10 Steel Jr. (S402)	1889-20	7.75
SA404	7 ft. Platform, 160x42 1/2", No. 10 Steel Jr. (S404)	1892-20	9.00
SN812	Upper Elevator, 88x47 1/2", No. 12 Binders	1907-	5.60
SN813	Lower Elevator, 83x52 1/2", No. 12 Binders	1907-	5.85
SP817	6 ft. Platform, 137x42 3/4", No. 12 (works for SN817)	1902-	7.75
SM818	7 ft. Platform, 158x42 1/2", No. 12 (works for SL818)	1906-	9.00

MOLINE

JD1401	Lower Elevator, 90x52", Nos. 4, 6, 7 and 25 Binders	1913-	5.85
JD1402	Upper Elevator, 90x45 1/2", Nos. 4, 6, 7 & 25 Binders	1913-	5.60
J1450	6 ft. Platform, 137x41", Nos. 4, 6 and 7 Binders	1913-	7.75
J1451	7 ft. Platform, 158x41", Nos. 4, 6 and 7 Binders	1913-	9.00

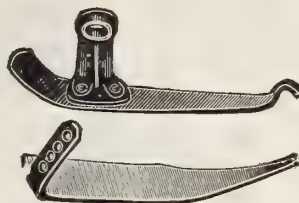
OSBORNE

CA2022	Upper Elevator, 88x42 3/4", New Osborne Binders	1909-	5.60
CA2023	Lower Elevator, 90x48 1/2", New Osborne Binders	1909-	6.00
CA2008	6 ft. Platform, 134x42 3/4", Col. & New Osb. Binders	1896-	7.75
CA2009	7 ft. Platform, 158x42 3/4", Col. & New Osb. Binders	1896-	9.00



PLOW BOLTS

Length	List 3/8	Retail Each	List 7/16	Retail Each	List 1/2	Retail Each
1 1/4	\$3.35	4c	\$4.10	4c	\$6.20	5c
1 1/2	3.50	4c	4.75	4c	6.45	5c
1 3/4	3.65	4c	5.00	4c	6.70	5c
2	3.80	4c	5.25	4c	6.95	5c
2 1/4	3.95	4c	5.50	4c	7.25	5c
2 1/2	4.10	4c	5.75	4c	7.55	5c
2 3/4	4.35	4c	6.05	4c	7.85	5c
3	4.60	4c	6.40	4c	8.20	5c



SHOE SOLES

SHOE SOLES FOR MOWERS

ADRIANCE

3099D, Inner, Nos. 7 and 8	\$1.20
3073G, Outer, Nos. 7 and 8	.50

CHAMPION

H381, Inner Draw Cut	.95
H483, Outer Draw Cut	.85
A6207, Inner, Improved Mower	.85
A5847, Outer, Improved Mower	.75

DEERE-DAIN

Z5134, Inner, Dain	.90
Z5231, Outer, Dain	.60
Z5786, Inner, Deere	.90
Z5331, Outer, Deere	.60

DEERING

D2097, New Ideal, Inner	.90
D1647, New Ideal, Outer	.65

EMERSON

M95S, Inner	1.00
M173S, Outer (0-10959)	.75

JOHNSTON

63FC, Outer with Bracket	1.00
1812, Inner, Nos. 9, 12, 14	.90
2323, Inner, No. 12	.90
63FD, Outer, No. 14	1.00

MCCORMICK

M465, Inner, New 4-1896-11	1.00
MB465, Inner, New 4-1912	1.00
MA259, Outer, New 4	.70

MCCORMICK-DEERING

MB465, Inner	1.00
MA259, Outer	.70

MASSEY-HARRIS

M2216, Outer	.55
M2217, Outer	1.00
M2276, Inner	.90

MILWAUKEE

PJ108, Inner	.90
PJ218, Outer	.85

OSBORNE

7010, Inner	.75
10959, Outer	.60

THOMAS

1041, Outer	.60
1096, Inner	.75
1107, Inner (New Mower)	.75

GRAIN DRILL TUBES



Plain Top.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of **Drill**, the kind of **Tube**, whether **ring flange** or **plain top**, or **special bell-shaped top** with straps, and by all means the length and diameter at top and bottom.

Plain tubes, each, 45c. Bell-Top Tubes, with strap, each, 65c.

GRAIN DRILL POINTS

We are one of the largest distributors of **GRAIN DRILL POINTS AND TUBES** in the Country.

For All the Leading Grain Drills.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample.

Points, each, .18c.

SPRING COTTERS

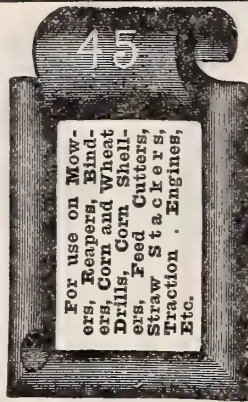


Assorted, box of 100.....75c.

LINK CHAIN BELTING

No.	Links per ft.	Av. Ult. strength lbs.	Price plain links per ft.	Price all per link
25	13.3	700	17c.	3c.
32	10.4	1100	17c.	3c.
33	8.6	1190	16c.	3c.
34	8.6	1300	18c.	3c.
35	7.4	1200	20c.	3c.
42	8.75	1500	19c.	4c.
43	7.4	1600	18c.	3c.
48	6.	1660	23c.	4c.
50	8.7	1900	22c.	5c.
51	10.4	1900	24c.	5c.
52	8.	2300	23c.	5c.
53 1/2	7.9	2866	32c.	6c.
55 1/2	7.4	2200	20c.	5c.
62 1/2	7.25	3100	27c.	6c.
65 1/2	5.66	2460	30c.	8c.
72	5.9	4240	45c.	8c.
72 1/2	7.25	4590	55c.	9c.
76 1/2	5.8	3890	42c.	9c.
77	5.2	3600	35c.	9c.

Attachment Links Also Furnished.



MACHINE BOLTS

Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	1/4		5/16		3/8		7/16		1/2	
1 1/2	\$1.60	\$.03	\$2.30	\$.03	\$2.95	\$.03	\$4.75	\$.04	\$5.65	\$.05
2	1.80	.03	2.60	.03	3.25	.03	5.20	.04	6.10	.05
2 1/2	2.00	.03	2.85	.03	3.60	.03	5.70	.04	6.55	.06
3	2.15	.03	3.05	.03	3.90	.04	6.10	.05	7.00	.06
3 1/2	2.85	.03	3.30	.03	4.25	.04	6.55	.05	7.45	.06
4	3.05	.03	3.55	.03	4.60	.04	7.00	.06	7.90	.07
4 1/2	3.20	.04	4.25	.04	4.90	.04	7.40	.06	8.35	.07
5	3.35	.04	4.50	.04	5.55	.05	7.85	.06	8.80	.07
5 1/2	3.50	.04	4.70	.04	5.85	.05	8.30	.07	9.25	.08
6	3.65	.04	4.90	.04	6.20	.05	8.75	.07	9.70	.08
6 1/2	3.80	.04	5.10	.04	6.50	.05	9.20	.08	10.15	.08
7	4.00	.04	5.35	.04	6.85	.06	9.65	.08	10.60	.09
7 1/2	4.15	.04	5.55	.04	7.15	.06	10.10	.09	11.05	.09
8	4.35	.05	5.80	.05	7.50	.06	10.55	.09	11.50	.09
9	4.70	.05	6.25	.05	8.15	.06	11.45	.10	12.40	.10
10	5.05	.05	6.70	.05	8.80	.06	12.35	.10	13.30	.10
11	5.40	.05	7.15	.05	9.50	.07	13.20	.10	14.70	.12
12	5.75	.05	7.60	.05	10.20	.08	14.05	.10	15.60	.15



CARRIAGE BOLTS

Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	1/4		5/16		3/8		7/16		1/2	
1 1/2	\$1.50	\$.03	\$2.20	\$.03	\$2.80	\$.03	\$3.80	\$.04	\$5.25	\$.05
2	1.65	.03	2.40	.03	3.12	.03	4.25	.04	5.70	.06
2 1/2	1.85	.03	2.65	.03	3.45	.03	4.75	.04	6.15	.06
3	2.00	.03	2.85	.03	3.75	.04	5.15	.05	6.60	.07
3 1/2	2.20	.03	3.10	.03	4.10	.04	5.60	.05	7.05	.07
4	2.90	.03	3.45	.03	4.45	.04	6.05	.05	7.50	.07
4 1/2	3.05	.03	4.05	.04	4.75	.04	6.45	.05	7.95	.07
5	3.20	.04	4.30	.04	5.35	.05	6.90	.06	8.40	.07
5 1/2	3.35	.04	4.50	.04	5.65	.05	7.35	.06	8.85	.08
6	3.50	.04	4.70	.04	6.00	.05	7.80	.07	9.30	.08
6 1/2	3.65	.04	4.90	.04	6.30	.05	8.25	.07	9.75	.08
7	3.85	.04	5.15	.04	6.65	.06	8.70	.08	10.20	.09
7 1/2	4.00	.04	5.35	.05	6.95	.06	9.15	.08	10.65	.09
8	4.20	.04	5.60	.05	7.30	.06	9.60	.09	11.10	.10
8 1/2	4.35	.05	5.80	.05	7.60	.07	10.05	.09	12.05	.11
9	4.55	.05	6.05	.06	7.95	.07	10.50	.09	12.50	.11
9 1/2	4.70	.05	6.25	.06	8.25	.08	10.95	.10	12.95	.12
10	4.90	.05	6.50	.06	8.60	.08	11.40	.10	13.40	.12
11	5.25	.05	6.95	.06	9.30	.09	12.25	.11	14.30	.13

All 1/4-inch Bolts 100 to a Package.

Other Sizes 50 to a Package.

Corn Planter Runner

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

RUNNERS FOR SINGLE ROW PLANTERS

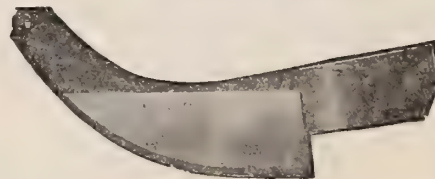
	Price, each
For Rock Island.....	\$2.00
For Twentieth Century.....	2.00
For Empire	2.00
For Hench & Dromgold Daisy.....	2.00
For Hoosier	2.00
For Keystone, No. 6 1/2.....	2.00
For Case, Farmers' Friend.....	2.00
For Evans	2.00
For Black Hawk.....	2.00
For Avery, No. 27.....	2.75



FOR DOUBLE ROW PLANTERS

	Price Per Pr.
For Janesville, Nos. 1, 5, 7 and 8.....	\$4.20
For Black Hawk, No. 1.....	3.80
For Black Hawk, No. 3.....	3.80
For Black Hawk, Nos. 4 and 5.....	3.80
For Deere, No. 999, With Blocks.....	4.20
For New Way	4.20
For Black Hawk, No. 15, With Block.....	4.20
For Deere, No. 9.....	3.80
For International, With Block.....	3.80
For J. I. Case, No. P344.....	3.80
For Superior, With Block.....	4.20
For Superior, Without Block.....	3.80
For Hoosier, No. 10.....	3.80
For Hoosier, No. 11.....	3.80
For Tiger Transplanter, Shallow, each.....	4.00
For Tiger Transplanter, Deep, each.....	4.50

Planter Runner Shoe



Intended for use on most old worn-out runners where a new runner cannot be obtained, and it will answer the purpose, but where new runners can be had it is much preferable.

Per Pair, List Price, \$3.00. Our Special Price, \$2.00.

CHECK-ROWER WIRE

FOR ALL THE LEADING PLANTERS.



Carry in stock the following sizes:

3 ft., 3 ft. 2 ins., 3 ft. 4 ins., 3 ft. 6 ins., 3 ft. 8 ins., 3 ft. 10 ins. and 4 ft.

The above comes in 10, 20, 40 and 80-rod rolls. Per Rod, List, 10c. RETAIL, 8c.

Nos. 106, 108, Stover Special Feed Grinding Mills

For Grinding Dry Ear Corn, Shelled Corn, and All of the Small Grains. Capacity, from 3 to 6 bushels per hour per horse power, depending upon the grinding condition of the grain and the fineness of the feed.

These mills, while somewhat lighter in construction, are equipped with the same style of white iron or chilled steel grinding burrs used in the corresponding sized mills.

No.		Speed, R. P. M.	Pulley	Horse Power Required	Weight	Price
106	6 in.	300 to 500	12x4 in.	2 to 5	200 lbs.	\$28.00
108	8 in.	400 to 600	12x6 in.	3 to 8	275 lbs.	38.25
31	6½ in.	200 to 750	12x4 in.	2 to 5	225 lbs.	39.50

No. 42 MILL

with 8-in. Burrs
\$52.25

NO. 45 STOVER FEED MILLS

PRICE

\$87.75

No. 68 Stover Combined Grinder

The No. 68 Stover General Purpose Grinding Mill will reduce to a fineness satisfactory for feeding all classes of live stock, poultry, etc., hay, straw, stalks, vines and roughage as well as ear corn with or without the shuck and all of the threshed grains.

Capacity, Grains and Kaffir Corn, 3 to 6 bushels per hour per horse power. Capacity, Hay or Stalks, etc., 3 to 5 tons per day.

PRICE

\$150.00

SPECIFICATIONS

Power required.....	8 to 20 H. P.
Speed	600 to 1,000 R. P. M.
Weight	1,000 lbs.
Pulley, regular.....	10 in. x 8 in.
Burrs, diameter.....	8 in.

Capacity, 3 to 6 bushels per hour per horse power, depending upon grinding condition of grain and fineness of feed.

This mill will grind more rapidly and produce a greater capacity per horse power applied than any mill of corresponding size on the market today.

This grinder has many outstanding features, the most prominent being cast iron breaker case, cast iron legs, feed regulator and feed plate, safety spring, safety lever, agitator, one-piece cob breaker, Universal grinding burrs, pivoted rear burr, and especially designed ball bearing cage for taking up end thrust, and all vital parts made of white iron or sometimes called chilled steel.

Regularly equipped with outboard bearing as illustrated above. Lack of space permits only a brief description. Our grinder catalog illustrating and describing all mills in detail, mailed to anyone interested.

SPECIFICATIONS

Speed, R. P. M.....	400 to 800
Horse power.....	12 to 25
Pulley	10 in. x 8 in.
Burrs, diameter.....	10 in.
Weight	555 pounds

THE BLUE RIDGE BURR MILL

(1) The Frame Work is made of a selected grade of heart pine, free from knots and defective parts, seasoned five years before being made up for the mill.

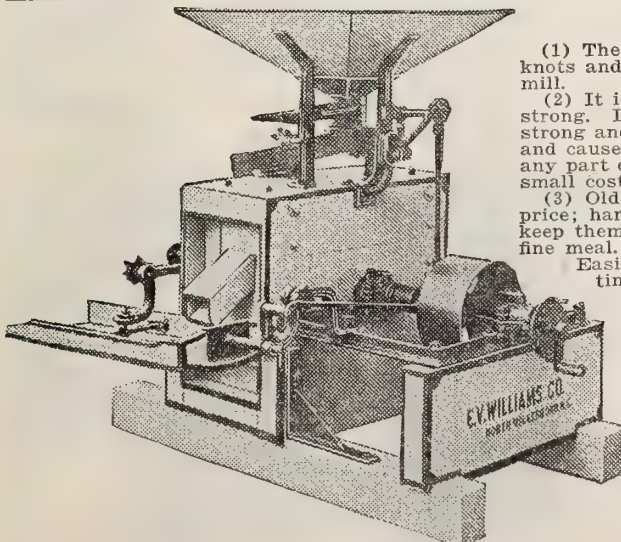
(2) It is put together with heavy wrought iron bolts, making it rigid and strong. It has many advantages over the cast iron frames; it is equally as strong and durable, and makes a far sweeter meal, because it does not sweat and cause the meal to cake up and sour as it is sure to do in iron hulls. If any part of this mill should break it can easily be repaired right at home at small cost and no loss of time.

(3) Old Virginia Pebble Stone Grit Burrs; no better can be had at any price; hard and flinty, but tough in texture. Requires little sharpening to keep them in good grinding condition. Especially adapted for grinding soft, fine meal. Leaves a flavor in the meal which is not surpassed by any Mill.

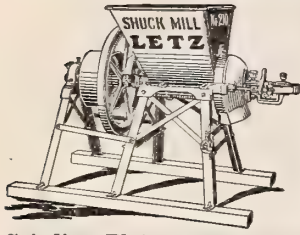
Easily sharpened by anyone of average intelligence, and will last a life time. Runner stone is securely fastened to spindle. Stationary or bed stone is cemented in frame of Mill.

SIZES, CAPACITIES, ETC.

Size of Mill	Capacity per Hour Bread Meal	Horse Power Required	Speed R. P. M.	Size of Pulley	Price
16 inch	6 to 20 bu.	6 to 8	800	10x6	\$120.00
20 inch	6 to 25 bu.	8 to 10	700	12x6	145.00
24 inch	8 to 30 bu.	10 to 12	600	14x8	192.00
30 inch	10 to 40 bu.	12 to 20	500	16x8	240.00



Letz Patented No. 210 Shuck Mill



The amazing capacity at which this mill grinds corn with shuck, kafir corn heads with 4 to 6" of stems attached, has made this mill a big seller.

Just the right size mill for 8-16 or Fordson tractors. Will grind 60 to 100 bushels of snapped corn. Many customers report 100 to 125 bushels of snapped corn per hour. All wearing parts are easily renewed at small expense. No parts need resharpening.

Grinding Plates.....10" in dia.
Pulleys.....8, 10, 12, 14, 16, 18" in dia., 6" face
Gross Weight.....380 lbs.

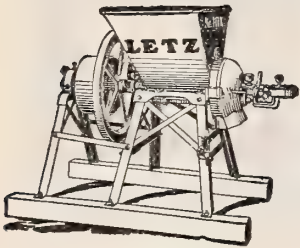
Letz No. 210 Shuck Mills are regularly built with A-234 coarse shuck plates in mill, and fine plates A-231 attached as extra plates to crate.

	15 H. P.	20 H. P.
Snapped corn.....	3000 to 4500	4500 to 7000
*Kafir corn heads.....	2500 to 3500	3500 to 5000
All small grains.....	1500 to 2500	2000 to 3000

*Kafir corn must be headed closely, with not more than 4" of stem. Not for machine headed kafir corn.

Price.....\$52.50

No. 111X Letz Grinder



The No. 111-X is a 10" grinder especially recommended for 8-16 or Fordson tractors.

The drive shaft, bearings and all working parts are designed for every day dependable service, grinding ear corn and all grains at surprisingly large capacity.

Plates.....10" diameter
Drive Shaft.....1 7/16" Diameter
Pulleys from 8" to 16" diam., 6" face.
Flywheel...24" diam., weight 55 lbs.

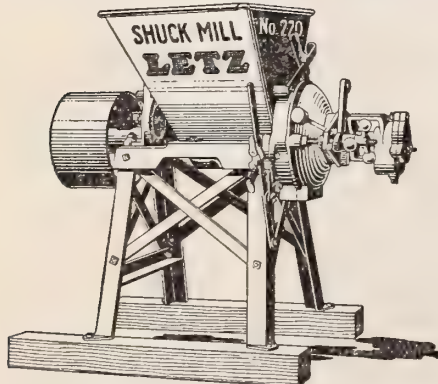
Complete weight.....365 lbs.
No. 111X mills are usually built with A-232 medium plates in the mill, and fine plates A-231 attached as extra plates to crate.

Bushels per hour, grinding ear corn medium fine, at 70 lbs. to the bushel.

H. P.	R. P. M.	Capacity
10.....	600	25 to 40 bu.
15.....	750	45 to 60 bu.
20.....	850	50 to 75 bu.

Price.....\$45.00

Letz No. 220 Heavy Duty Shuck Mill



10 1/2" Grinding Plates

This mill has big capacity combined with great strength designed especially for large dairymen, stockmen or country custom mill, where speed and sturdy construction means much.

The No. 220 is built over-size throughout, purposely to stand up under big capacity, using 15-35 H. P.

Hopper is provided with separate compartment and separate slide gate

to regulate flow of small grains in the larger compartment.

Grinding plates, double face.....10 1/2" dia.
Drive Shaft.....1 11/16" dia.
Pulleys, all 8-inch face.....8, 10, 12, 14, 16 and 18" dia.
Speed recommended, (depending upon the amount of power available).....750-1200 R. P. M.
Gross weight, knocked down, crated, including skids.....460 lbs.

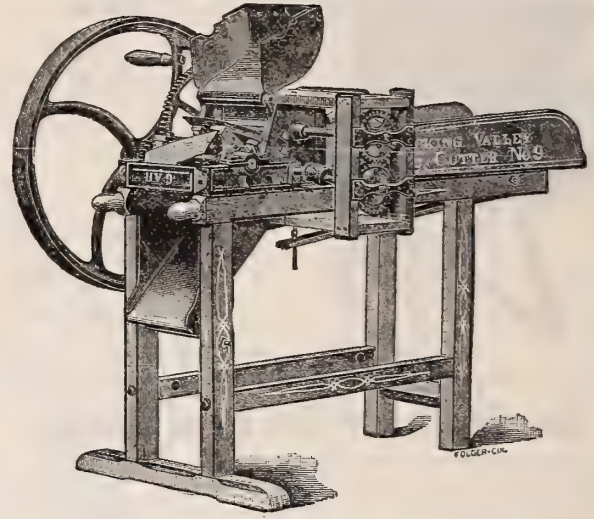
Letz No. 220 Shuck Mills are regularly built with B-31 coarse plates in mill, and fine plates B-34 attached as extra plates to crate.

	15-20 H. P.	25-30 H. P.
Materials	Speed of Mill	Speed of Mill
	700-750 R. P. M.	800-1000 R. P. M.
Snapped corn.....	4500 to 7000	6000 to 10000
*Kafir corn heads.....	3500 to 5000	4000 to 7000
All small grain.....	2000 to 3000	2500 to 4000

*Kafir corn must be headed closely, with not more than 4" of stem. Not for machine headed kafir corn.

Price.....\$65.00

Hocking Valley Feed Cutter

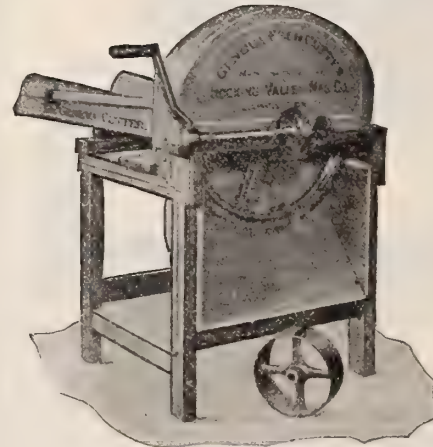


Best for sixty years. Upward cut is great advantage. Less power as drive is direct on knife shaft. No complicated gearing. Safety balance wheel. Thoroughly guaranteed.

	Knives	Cut	Power	Pulley	Price
No. 9	3-9 in.	3/4-7/8 in.	Hand	10x6	\$50.00
No. 11	4-11 in.	1 1/4-1 in.	1 Horse	10x6	80.00
No. 13	4-13 in.	1 1/4-1 in.	2 Horse	10x6	90.00

Carriers Furnished at Extra Cost.

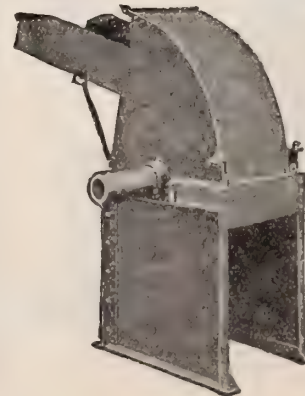
Geneva Feed Cutter



Easy running. Nicely balanced. Built for service. All equipped with two knives on balance wheel. All sizes are hand machines, but can be equipped with pulley for power. Special attachment for making 1/8-inch cut.

	Price
No. 6—9-inch Knife, Hand Power, 1/4 to 1 1/4-inch cut...	\$48.50
No. 8—10-inch Knife, Hand Power, 1/4 to 1 1/4-inch cut...	52.00
No. 10—10-inch Knife, Hand or Power, 1/4 to 1 1/4-inch cut	61.00
Pulley 10x4, for Nos. 6 and 8.....	2.40

Jumbo Hammer Type Feed Mill



The Jumbo Hammer Mill can be operated by a 5-Horse Power Engine or motor provided the grinding materials are in the most perfect condition, however, for general grinding we strongly recommend a power unit of at least 10 Horse Power. Grinding damp or moist materials naturally requires much more power than grinding dry or brittle ones. Wet or soggy grain or fodder should never be ground unless absolutely necessary, and then only with a very coarse screen.

Price.....\$93.00

Blower and Dust Collector 65.35

12-foot Wagon Box Elevator.....44.75

6-foot Two Spout Bag Elevator.....36.10

Ross No. 40, and No. 50, Cutters and All Steel Blowers



The knives on flywheel type of Ross Silo Filling Machines with Blower have made a home for themselves with all their users. This is due to the fact that they possess the required strength and features to enable them to accomplish the work of filling silos in a way that brings comment from all. Realizing the fact that users of this class of goods expect more and more each year in the line of quality and quantity of work, they possess features fully described in the special catalogue, which we will be pleased to mail, namely: Four-sided reversible steel cutting plate, positive tension to the feeding rolls, special knife adjustment, self-aligning and adjustable main shaft bearings and roller shaft bearings, extra bearings for main shaft, special balanced main frame, etc.

Size.	Throat Capacity.	Capacity per Hour on 1-Inch Cut. Ensilage.
No. 40	55 sq. ins.	6 to 8 tons
No. 50	72 sq. ins.	8 to 10 tons

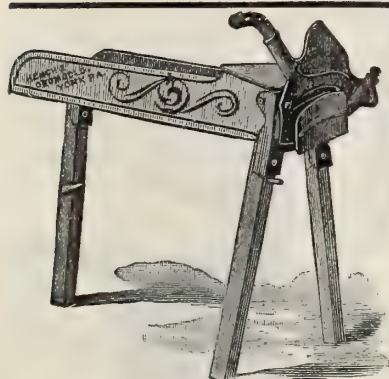
Power Required.
6 to 8 H. P.
8 to 10 H. P.

Weight Without Truck.
1250 lbs.
1450 lbs.

Cutter with Traveling Feed Table and Blower, with 30-ft. Blower Pipe and Elbow.

Blower Pipe, Including Elbow, per Foot.
Retail.
.85
.85.

Pr. with Truck.
Retail.
262.50
277.50



MARYLAND LEVER CUTTER

**STRONG
CHEAP AND
DURABLE**

Retail\$6.00

Cylinder Type Hand Cutter One Knife

No. 11½—"ONE-KNIFE."

The feeding rolls on this cutter are operated by means of cog wheels and sprockets. The feed is constant and uniform, and the cutter has large capacity. The feed rolls are equipped with tension springs; the cutter has large heavy flywheel, large crank, chilled shear bar and hardwood frame. Is Adjustable for Different Lengths of Cut. Our Special Price, \$20.00



THE FARRELL GEARED POWER HOISTS

The hoists shown on this page are designed to meet the needs of the farmer and others who have gasoline, electric or steam power. The advantages of a hoist in unloading hay are that it does the work of a team, and does not require an extra man to operate it, since it can be operated by the man on the load, and it also saves time, because there is no delay due to hitching the team to the draft rope, and in returning the carrier, when a wait for slake rope is necessary. Our return drum hoist pulls the carrier back as soon as the fork is tripped. A hoist also saves wear on rope because it is not dragged over the ground.

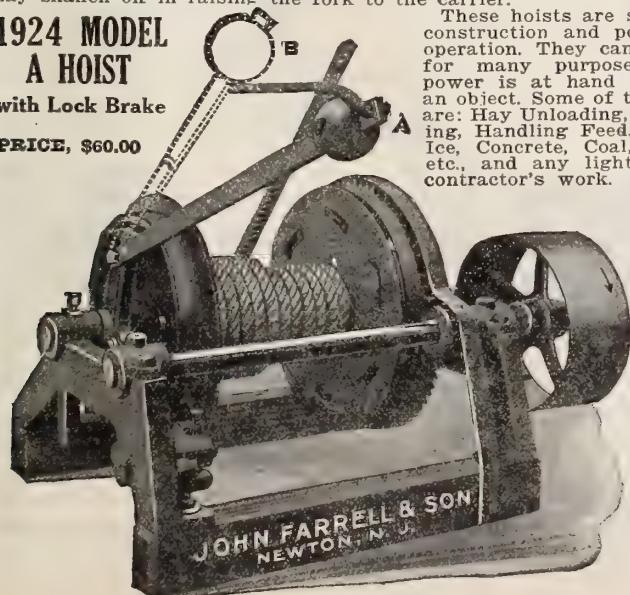
The advantages in using a hoist in unloading hay are many. If the fork is caught in the rigging the fork can be stopped instantly and released, thus doing away with possibility of breaking rigging or fork. The forkful of hay is separated from the load without a sudden jerk and is carried up smoothly and easily to the carrier, avoiding the flint when the carrier leaves the stop. The load is not torn to pieces and the hay shaken off in raising the fork to the carrier.

1924 MODEL A HOIST

with Lock Brake

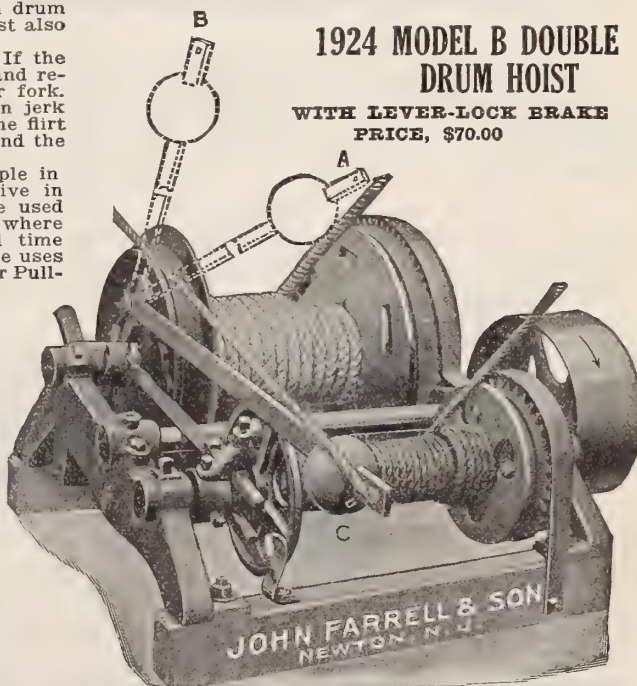
PRICE, \$60.00

These hoists are simple in construction and positive in operation. They can be used for many purposes where power is at hand and time an object. Some of these uses are: Hay Unloading, Car Pulling, Handling Feed, Ice, Concrete, Coal, etc., and any light contractor's work.



1924 MODEL B DOUBLE DRUM HOIST

WITH LEVER-LOCK BRAKE
PRICE, \$70.00



WROUGHT SCREW AGRICULTURAL WRENCHES.



	6 in.	8 in.	10 in.	12 in.	15 in.
Retail price, each.....	\$.50	\$.60	\$.70	\$.85	\$1.00
List price, per dozen.....	10.00	12.00	14.00	17.00	24.00

MACHINISTS' KNIFE HANDLE WRENCHES.



	6 in.	8 in.	10 in.	12 in.	15 in.	18 in.	21 in.
Retail price, each....	\$1.00	\$1.20	\$1.40	\$1.80	\$2.55	\$3.25	\$4.00
List price, doz..	15.00	18.00	22.00	28.00	38.00	48.00	58.00

STILLSON WRENCHES.



Size.	Grips.	List.	Retail.
6 in.	1/8 wire to 1/2 pipe.	\$2.00	\$.75
8 in.	1/8 wire to 3/4 pipe.	2.25	.85
10 in.	1/8 wire to 1 pipe.	2.50	.90
14 in.	1/4 wire to 1 1/2 pipe.	3.50	1.10
18 in.	1/4 wire to 2 pipe.	5.00	1.50
24 in.	1/4 wire to 2 1/2 pipe.	7.25	2.25
36 in.	1/4 pipe to 3 1/2 pipe.	13.50	5.00
48 in.	1 pipe to 5 pipe.	20.00	8.00

TWIN WRENCHES.



Twin, 10 in. long. List, per doz., \$18.00. Retail, 75c. each.

COLD CHISEL.

PUNCH.



	1/2 in.	5/8 in.
Retail price, each.....	\$0.20	\$0.25

FILES

8-inch Mill Bastard, list per dozen..	\$4.30	Retail each..	\$.20
10-inch Mill Bastard, list per dozen..	5.60	Retail each..	.30
12-inch Mill Bastard, list per dozen..	7.50	Retail each..	.40
8-inch Cross Cut, list per dozen....	7.50	Retail each..	.40
10-inch Cross Cut, list per dozen....	9.10	Retail each..	.50

SCREW DRIVERS

No. 903—4-inch Blade, list per dozen..	\$7.20	Retail each..	\$.40
No. 904—6-inch Blade, list per dozen..	7.80	Retail each..	.45
No. 905—9-inch Blade, list per dozen..	8.40	Retail each..	.50
8-inch BUTTON FLIERS , per pair.....			.75

CLAW HAMMERS



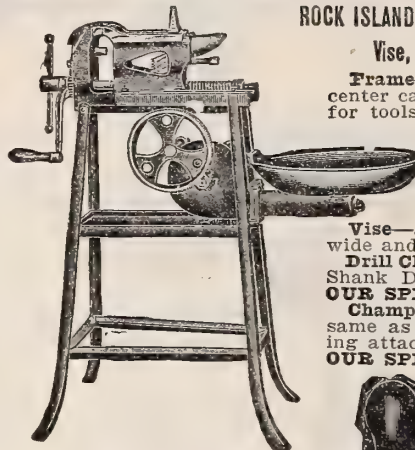
No. 5191 1/2—Hand Made, each.....	\$.75
No. 5197 1/2—Falls City, each.....	1.00

BELT PUNCHES REVOLVING



Retail Price, Each, Four-tube, \$0.95. Six-tube, \$1.15. Single-tube, \$0.50.

ROCK ISLAND, Combination Forge, Anvil, Vise, Drill and Pipe Vise



Frame—The frame is steel; center casting is used for shelf for tools.

Forge—Pan in oval shape, 12x15 in., stands 27 inches from floor. Pan is 7 inches.

Anvil—3 1/2 inches wide, 12 inches long.

Vise—Jaws are 3 1/2 inches wide and opens 11 inches.

Drill Chuck takes 1/2-in. Round Shank Drill.

OUR SPECIAL PRICE...\$26.00

Champion Combination Tool, same as above, but has grinding attachment.

OUR SPECIAL PRICE...\$28.50



IDEAL RIVETING MACHINE

This is the best lowest-priced Riveting Machine made. Warranted to set Tubular Rivets perfectly.

PRICE85c.

TUBULAR RIVETS

10015c.

CANT HOOKS



Cant Hooks, No. 318B—2 1/2 inches by 4 feet, price.....\$4.00

Cant Hooks, No. 318B—2 1/2 inches by 4 1/2 feet, price..... 4.50

PEAVIES



Peavies, No. 9—2 3/4 inches by 5 feet, price.....\$5.00

1½ to 4 pounds. Per lb.....250

STRAP HINGES



	Light Strap. Retail, Per Pair.	Heavy Strap. Retail, Per Pair.
4 inch	\$0.10	\$0.12
6 inch	.16	.16
8 inch	.20	.27
10 inch	.40	.47
12 inch	.55	.72

SCREW HINGES



6 to 12 inches, per lb.	10c.
14 to 20 inches, per lb.	9½c.
22 to 36 inches, per lb.	9c.

T-HINGES



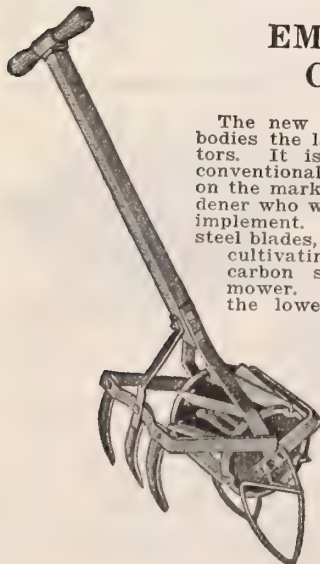
	Light T. Retail, Per Pair.	Ex. Heavy T. Retail, Per Pair.
4 inch	\$0.10	\$0.16
6 inch	.15	.20
8 inch	.20	.35
10 inch	.32	.50
12 inch	.45	.78

HINGE HASPS



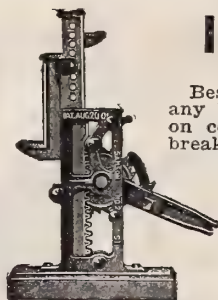
	Retail, Each
3-inch	.08
4-inch	.09
6-inch	.10
8-inch	.15

EMPIRE ROTARY CULTIVATOR



The new Empire Rotary Cultivator embodies the latest design in garden cultivators. It is radically different from the conventional garden cultivators heretofore on the market, and is dedicated to the gardener who wants the best and most efficient implement. Equipped with eight revolving steel blades, a lower cutting blade and three cultivating shovels, all of special high carbon steel. Propelled like a lawn mower. The revolving blades act upon the lower cutting blade, which slides along just below the surface of the ground, cuts all weeds and deposits them on the surface. The action (like a lawn mower) thoroughly pulverizes the soil and leaves a fine mulch. By reversing the handle the cultivating shovels are brought into play. With 10½-inch wide cutting blades, and leaf guards, Wheels 7 inches in diameter. Weight 20 pounds.

Price, \$6.50.



Improved Sampson Jack

MALLEABLE IRON.

Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

No. 1—Will raise vehicles weighing 2 tons \$5.00
 No. 2—Will raise vehicles weighing 5 tons 6.25
 No. 3—Will raise vehicles weighing 5 tons, with drop hook 7.25
 Can also furnish other Jacks. Prices on application.



Bell Bottom Jack Screws

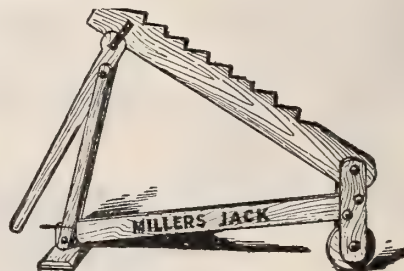
These Jack Screws have cast-iron stands with forged head screws. For workmanship and durability they cannot be excelled.

Diam. Screw	Height Stand	Height over all	Our Special Price
1½ in.	12 in.	15 in.	\$4.00
1½ in.	14 in.	17 in.	4.50
1½ in.	16 in.	19 in.	5.10
2 in.	10 in.	14 in.	5.10
2 in.	12 in.	16 in.	5.65
2 in.	14 in.	18 in.	6.20
2 in.	16 in.	20 in.	7.00
2 in.	18 in.	22 in.	7.70
2 in.	20 in.	24 in.	

Capacity 1½-in. diameter screw, 10 tons.
 Capacity 2-in diameter screw, 12 tons.

Other sizes. Prices on Application.

WOOD WAGON JACK



No. 1—Adapted for buggies or light work. Capacity, 1,000 pounds. \$1.50.

No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity, 3,000 pounds. \$2.00.

No. 3—\$2.50.

AUTOMOBILE JACK

This Jack is made from best quality refined malleable iron, with high-grade Steel Screw, aluminum finish, and by single turn of the pawl raises or lowers. It is compact, neat and has sufficient strength to raise any automobile made.

No.	Capacity, Pounds.	Height, Lowered, Inches.	Raises, Inches.	Wgt., Lbs.	Price, Each.
1...	2000	10	6	5	\$1.50
2...	5000	10	6	8	3.00

CROWBARS

Crowbars with Pinch Point, from 20 to 25 lbs., per lb., 10c.

Crowbars with Wedge Point, from 20 to 25 lbs., per lb., 10c.

Digging Bar with Rammer combined, each, \$2.50.

Digging Bar with Loop Handle, each, \$2.50.



WEDGES

Strong steel wedges for splitting wood, have the right taper and will stick in the wood.

Weight from three to six pounds.

Price, per pound.....12c.

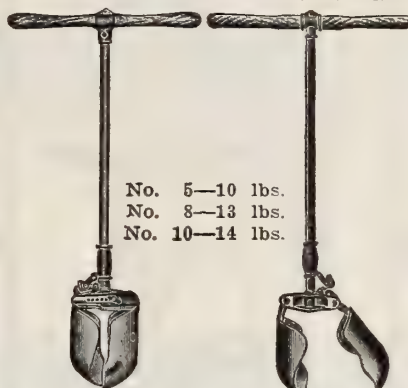
SNOW SCRAPER



SNOW SCRAPER BLADES made of high carbon shovel steel. Will wear a long time. Castings of best malleable fastened to blades and handle; Handles of ash, tough, strong and smoothed. All metal parts given a coat of black paint.

18-inch Kohler Scraper.....\$1.25
24-inch wide.....2.00

THE STANDARD EARTH AUGER



Closed.

Open.

No. 5—10 lbs.
No. 8—13 lbs.
No. 10—14 lbs.

Prices.

No. 5 bores four different size holes, 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, \$6.00.

No. 8 bores seven different size holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, \$7.00.

No. 10 bores nine different size holes, 8, 9, 10, 11, 12, 13, 14, 15 and 16 inches in diameter, 3½ feet deep. Each, \$8.00.

GIBBS' POST-HOLE DIGGER

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree-planting.

PRICE\$2.50



Iwan Post-Hole Auger

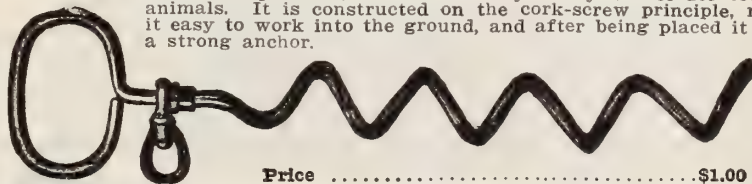
3-inch Iwan Post-Hole Auger.....\$4.00

4-inch Iwan Post-Hole Auger.....4.50



Tethering Anchor

This simple little device is a very handy anchor for tethering animals. It is constructed on the cork-screw principle, making it easy to work into the ground, and after being placed it makes a strong anchor.



Price\$1.00

Cast Mauls with Wood Ends and Wood Handle



10 Pounds, Each.....\$1.90
12 Pounds, Each.....2.10
16 Pounds, Each.....2.70

Tampers for Post, Sod and Cement



With extra large wood handles, 2¼ inches in diameter.

No. 2 Round Tamper, 5 in. Diameter, 15 lbs., Price.....\$1.80
No. 5 Square Tamper, 6 in. x 6 in., 12 lbs., Price.....1.60
No. 6 Square Tamper, 8 in. x 8 in., 17 lbs., Price.....2.10
No. 7 Square Tamper, 10 in. x 10 in., 20 lbs., Price.....2.50

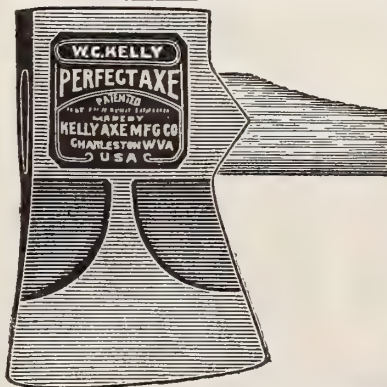
ICE HOOKS

No. 1 H 6—6-ft. Handle, Strapped Ferrule.....\$1.25
No. 1 H 7—7-ft. Handle, Strapped Ferrule.....1.50
No. 1 H 8—8-ft. Handle, Strapped Ferrule.....2.00

KELLY AXES

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Kelly, Single Bit—3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs. Each, \$1.75.



Kelly Axes

complete with handle.
Price\$2.25

KELLY HALF-HATCH-ETS. Price....\$1.25

AXE HANDLES

No. Excelsior—Extra Selected Second Growth. All White Hickory Axe Handles.....\$0.50
No. 1—Selected White Hickory Axe Handles......40
No. 2—White and Red Hickory Axe Handles......35
No. 3—White and Red Hickory Axe Handles......20

Griffith & Turner
Ball-Bearing
Grindstone

The G. & T. B. Grindstone has a combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles. Stones usually furnished vary in thickness from 1 1/4 to 2 1/4 inches. Weight of frame and fixtures only 32 lbs. Shipped knocked down unless ordered otherwise. If crated, an additional charge will be made.

No. 1 Stone, 90-110 pounds, each.....	\$9.75
No. 2 Stone, 70-80 pounds, each.....	8.75
No. 3 Stone, 40-50 pounds, each.....	8.00

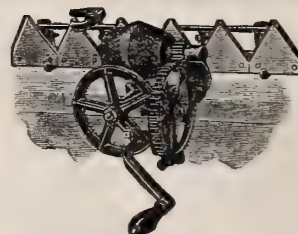
Gritco
Ball-Bearing
Grindstone

The Gritco Ball-Bearing Grindstone

is one of the strongest built, and is practically indestructible.

PRICE\$8.75

No. 82-C Sickle and Tool Grinder



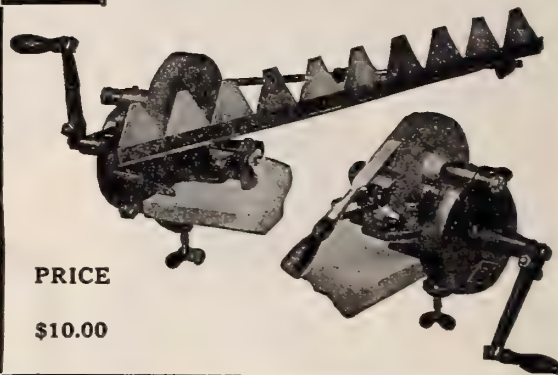
The No. 82C Grinder is a simple, compact and serviceable hand-power sickle and tool grinder especially suited to farm work. It can be clamped either to a

mower wheel or to a bench. The tool wheel is 4 1/4 x 1 3/8 inches.

82CW—With Bevel and Flat tool Wheel \$7.50
82C—With Bevel Wheel..... 6.50

No. 86 Sickle and Tool Grinder

A useful farm grinder for tools and sickle sharpening. Made especially to take care of all general grinding on the farm. This machine can be quickly attached to a mower wheel or bench.



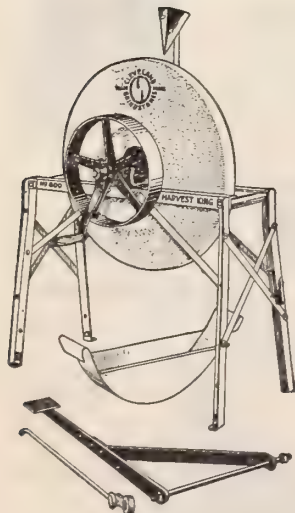
PRICE

\$10.00

SCYTHE STONES



Each	
Western Red End.....	10c.
Quinnebog	15c.
English Round	25c.
Darby Creek	20c.

Harvest King Power
Grindstone

The frame is constructed of heavy angle steel strongly braced. It is equipped with high-grade selected Grindstone 24-in. by 2-in., furnished with 12-in. pulley with 2 3/8-in. face, and heavy steel roller bearings, drip cup and hand cranks.

The frame is shipped folded complete, stone crated, to save freight. Weighs about 125 lbs.

Price, regular, which includes 24-in x 2-in. Stone, 12-in. x 2 3/8 in. Pulley, Hand Crank and Drip Cup\$13.50

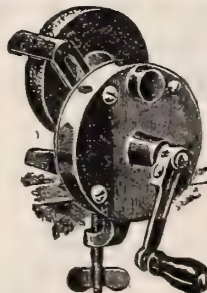
EXTRAS

Trough	\$1.75
Treadle, Pitman and Bearing	1.75

Cast Grindstone Fixtures with Shaft.

15-in., per set, 80c. 17-in., per set, 90c. 19-in., per set, \$1.00.

TOOL GRINDERS



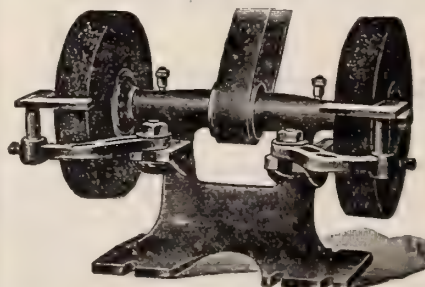
Domestic Kitchen Grinder, with smooth stone for sharpening knives.....\$2.25

No. 24—It is equipped with a 4x1-in. Grinding Wheel, and is intended for a Household Grinder. Weighs 6 lbs. boxed. Price.....\$3.50

No. 25—It is equipped with a 5x1-in. Grinding Wheel, and will be found a very handy tool for mechanics. Weighs 7 lbs. boxed. Price.....\$4.00

No. 26—It is equipped with a 6x1-in. Grinding wheel. Weighs 11 lbs. boxed. Price\$5.00

No. 309-C POWER BENCH GRINDER



This grinder is constructed along the best mechanical lines. It can be bolted to any bench and its heavy design makes it the ideal grinder for power of any sort. It is equipped with two sharpening wheels of Light Dimp-O-Grit, 7 inches in diameter and 1 1/4 inches wide, one medium grit and the other coarse,

and two universally adjustable tool rests. Weight, boxed, 32 pounds.

PRICE.....\$15.00
No. 306 Power Bench Grinder.....\$8.00

WE CARRY A FULL LINE OF LOOSE STONES

Prices: From 40 lbs. to 200 lbs., per lb., 5c. Under 40 lbs., per lb., 5 1/2c. Over 200 lbs., per lb., 6c.

CELEBRATED CROSS-CUT SAWS



NARROW AMERICAN

5 ft.—Our Special Price.....	\$1.85
5 ½ ft.—Our Special Price.....	2.10
6 ft.—Our Special Price.....	2.25

NARROW CHAMPION

5 ft.—Our Special Price.....	\$1.60
5 ½ ft.—Our Special Price.....	1.75
6 ft.—Our Special Price.....	1.95

Price of Cross-Cut Saw is Without Handle. Climax Handles, 40c. per Pair.

CROSS-CUT SAWS, WIDE BACK, AMERICAN



Wide American Tooth, Silver Steel, 5, 5 ½ and 6 Feet.
Gauge, 14x16.

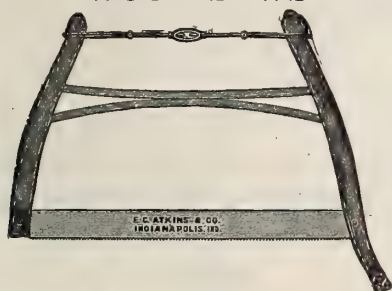
5 ft.—Our Special Price.....	\$2.95
5 ½ ft.—Our Special Price.....	3.25
6 ft.—Our Special Price.....	3.60

Champion Tooth, Cast Steel. Gauge, 14x16.

5 ft.—Our Special Price.....	\$2.65
5 ½ ft.—Our Special Price.....	2.95
6 ft.—Our Special Price.....	3.20

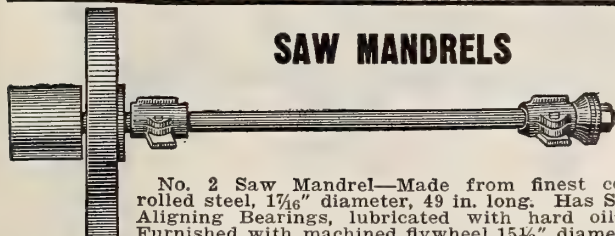
Price of Cross-Cut Saws is Without Handle.

WOOD SAWS



No. 617—Wood brace frame, single rivet, painted red, plain tooth, breasted blade, 2 ½ inches wide. **Our Special Price, \$1.25.**
No. 523—Wood brace frame, single rivet, selected stock, high finish, painted red, jumbo rod tinned, Tuttle tooth, breasted blade, 2 ¼ inches wide. **Our Special Price, \$1.50.**
No. 923—Jumbo rod tinned, Tuttle tooth blade, breasted, 2 ¼ inches wide. Double brace, double riveted. Painted vermilion and varnished. **Our Special Price, \$1.55.**

SAW MANDRELS



No. 2 Saw Mandrel—Made from finest cold-rolled steel, 1 ¼" diameter, 49 in. long. Has Self-Aligning Bearings, lubricated with hard oilers. Furnished with machined flywheel 15 ¼" diameter, weight 65 lbs., 6x6" pulley and is turned for saw with 1 ¾" hole. Comes complete with saw collars, nut and keys.
Price\$15.00

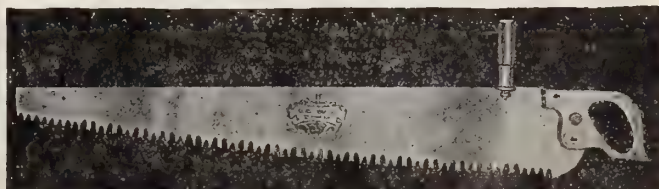
BALING TIES

Cross Heads



SINGLE LOOP BALE TIES—9 ½-ft. No. 14, \$1.90.
ANNEALED BALING WIRE—Nos. 11, 12, 13, 14, and 16 always on hand at lowest market prices on application.
Special prices in quantity to Threshermen and Balers.

ONE MAN CROSS-CUT SAW



ONE MAN CROSS-CUT SAW
Champion Tooth

3 feet.....	\$1.95
3 ½ feet.....	2.25
4 feet.....	2.65

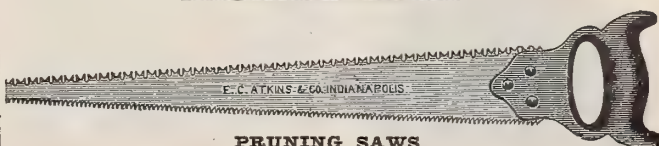
HAND SAW.



HAND SAWS.

No. 46—American straight back; plate on handle. **Our Special Price, \$1.40 each.**
No. 59—Sheffield Saw Works. Skew back; beech handle; polished edge; 7 to 9 points. **Our Special Price, \$2.25 each.**
No. 54—Silver Steel; beech handle; straight back; polished edge; 7 to 9 points. **Our Special Price, \$3.25 each.**
No. 53—Silver Steel; skew back; carved and polished, with Atkins' perfection apple handle. **Our Special Price, \$3.75 each.**
Special Prices in Quantities.

PRUNING SAWS



PRUNING SAWS

No. 3 Double

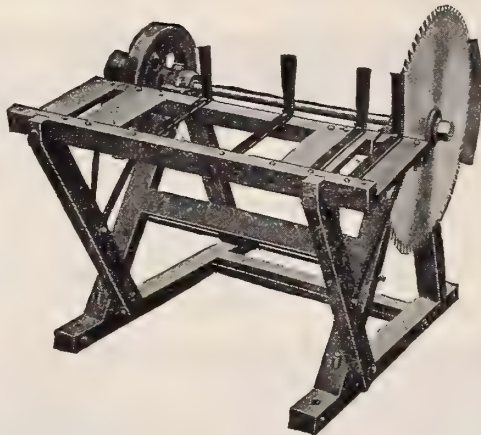
No. 1 Single

16-inch.....	\$1.65	16-inch.....	\$1.60
18-inch.....	1.80	18-inch.....	1.75
20-inch.....	1.90	20-inch.....	1.85

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

No. 700 With Tilting Table

Built specially for sawing poles and cord wood with ease and in fastest time—right or left hand. Mandrel of finest cold rolled steel, 1 7/16" diam., 49" long—fitted for saw with 1 3/8" hole. Flywheel is accurately machined and carefully balanced, 10 1/2" diam., weight 65 lbs. (95 lbs. flywheel can be furnished at an extra cost). Standard pulley size 6x6". Special Self-Aligning Bearings lubricated with hard oilers. Wood sections from selected A-1 lumber, carefully inspected and securely bolted together. Has 4-pole guides and a special saw guard for safety. The best tilting saw frame you can buy at any price.



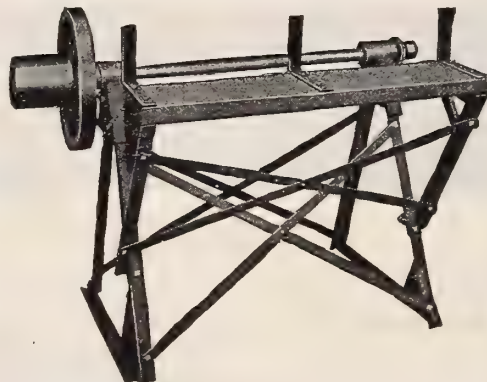
Complete shipping weight 250 pounds.

Without Saw Blade....	\$25.75	With 26-inch Saw.....	\$30.30
With 22-inch Saw.....	29.05	With 28-inch Saw.....	30.80
With 24-inch Saw.....	29.65	With 30-inch Saw.....	31.50

Jumbo 705 All Steel Saw Frame

BUILT ESPECIALLY FOR USE WITH 1 1/2-3 H. P. MOTOR

The Frame of the 705 is strong and rigid, being made of 1 1/4" x 3/16" angle steel. It has a swinging table, with steel angle legs and heavy hard wood table top, provided with steel brackets. The frame is well braced and will not get out of alignment.



The Mandrel

is of cold rolled steel shafting, 1 1/4" diameter, and 42" long, and will handle saw blades 22" in diameter. The bearings are of a good grade babbit. The flywheel, which weighs 35 lbs., is perfectly balanced insuring smooth running.

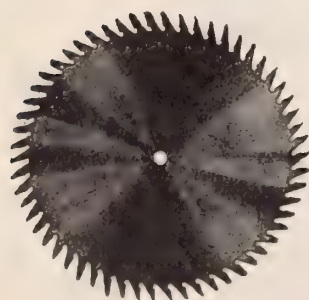
The Height of the saw frame to center line of arbor is 26 1/2". The Length over all is 43". Length at bottom of frame is 32 1/2".

The Width over all, when table is back from saw, is 30 3/4". the width at bottom of frame is 23 1/2".

The Shipping Weight of the 705 is 150 lbs.

No. 705 Saw Frame.....	\$18.00
With 22-inch Saw.....	22.00

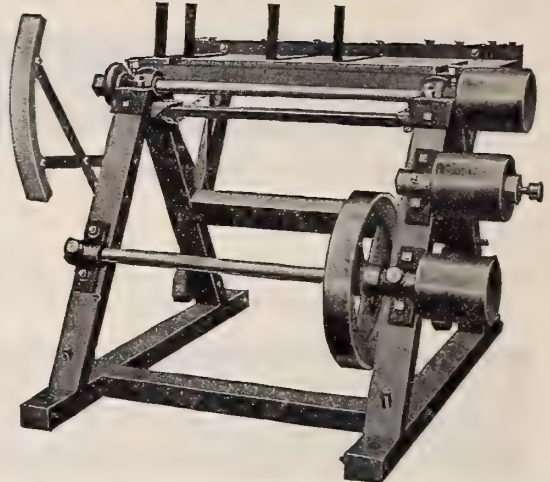
GRITCO CIRCULAR SAW



These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequalled. The prices given are for saws sharpened and set. All blades with 1 3/8-inch hole.

	Retail
22-inch, No. 12 gauge....	\$3.30
24-inch, No. 11 gauge....	3.90
26-inch, No. 11 gauge....	4.55
28-inch, No. 10 gauge....	5.05
30-inch, No. 10 gauge....	5.75

No. 702 With Flywheel Beneath

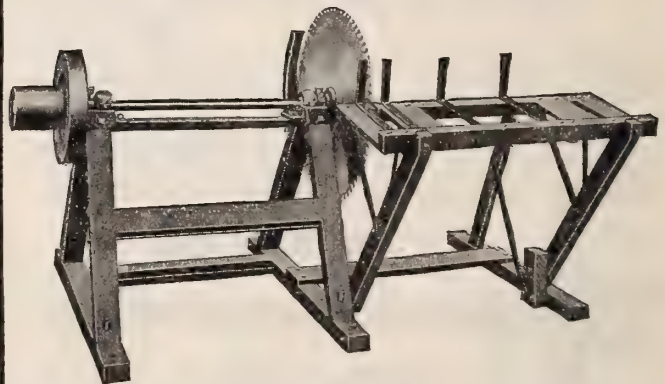


Flywheel entirely out of the way on this Frame—suitable for sawing long poles without any interference—right or left hand. Mandrel is of cold rolled steel, diam. 1 7/16", 49" long and turned for saw with hole 1 3/8" diam. Machined flywheel is accurately balanced, 15 1/2" diam., weight 65 pounds (95 lbs. flywheel can be furnished at slight additional cost). Standard pulley size 6x6". Furnished with Jumbo Self-Aligning Bearings which are lubricated thoroughly by hard oilers. Wooden parts are from finest stock that can be secured, securely bolted together for strength and durability. Has 4 pole guides and special saw guard for safety. This is an unusually well made, fine finished frame.

Shipping weight complete.

Without Saw Blade....	\$40.50	With 26-inch Saw.....	\$45.05
With 22-inch Saw.....	43.80	With 28-inch Saw.....	45.55
With 24-inch Saw.....	44.40	With 30-inch Saw.....	46.25

No. 701 With Pole Extension



One of the best frames obtainable for sawing long poles and heaviest cord wood—right or left hand. Mandrel of cold rolled steel, 1 7/16" diam., 49" long—fitted for saw with 1 3/8" hole. Machined flywheel 15 1/2" diam., weight 65 lbs. (95 lbs. flywheel can be furnished at slight additional cost). Standard pulley 6 x 6". Has Self-Aligning Bearings with hard oilers. Wooden parts heavy and very substantial—securely bolted together. 4-pole guides and special saw guard for operator's safety. You can't buy a better made frame with pole extension than this Jumbo.

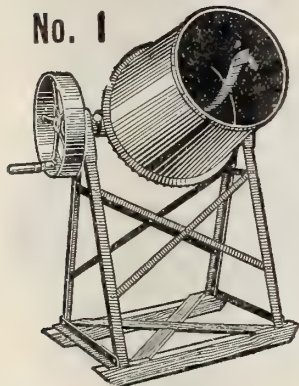
Complete shipping weight, 260 lbs

Without Saw.....	\$29.50
With 24-inch Saw.....	32.80
With 26-inch Saw.....	33.40
With 28-inch Saw.....	34.55
With 30-inch Saw.....	35.25

All Prices in Catalog Subject to Change Without Notice.

The H. & Z. Concrete Mixer

No. 1



**Saves Cement and Insures Better Concrete
Eliminates Much Hard Work and Does a Better Job**

Hand mixing is a hard, back-breaking job, and because it is difficult it is often slighted—the concrete is poorly mixed, cracks, crumbles and goes to pieces. To insure a good job the concrete should be mixed

with an H. & Z. Mixer—and that is the most economical way in the end.

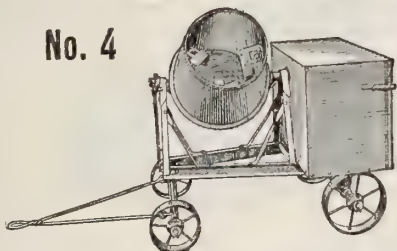
A Fast Working Machine

The H. & Z. Mixer will mix a batch of thoroughly mixed concrete in a minute or less. The drum is always revolving and as soon as any material is put into it the mixing begins. The revolving discharge insures a quick pouring of the entire contents of the drum, throwing out the heavy and lighter materials in an even flow and not draining off the water and sand first as would be the case in a stationary discharge.

No. 1—2½ cu. ft. capacity.....\$34.85
No. 3—3½ cu. ft. capacity.....67.00
No. 4—3½ cu. ft. capacity with 1½ H. P. Engine.....175.00



No. 3



No. 4



ALFALFA BELTING

Alfalfa water-proof belting is a belt woven especially with a view of obtaining great tensile strength. Nothing but the finest long, staple cotton is used.

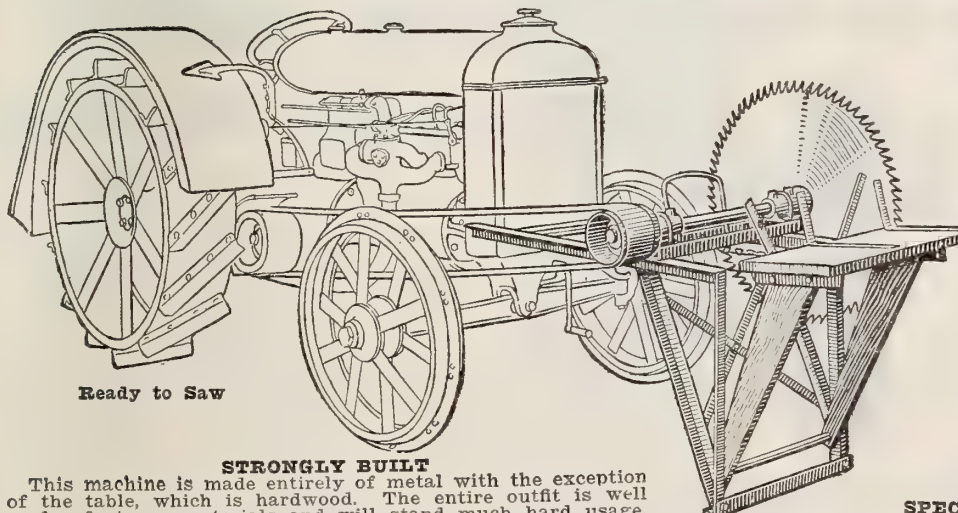
	List	Our Price
2-inch, 4-ply.....	\$.40 ft.	20c. ft.
3-inch, 4-ply.....	.51 ft.	25c. ft.
4-inch, 4-ply.....	.70 ft.	35c. ft.
5-inch, 5-ply.....	1.08 ft.	54c. ft.
6-inch, 5-ply.....	1.24 ft.	62c. ft.

We have been able to develop by the use of the best raw material obtainable, and by a direct system of impregnation a fabric belt, which has a breaking strain of 6,730 pounds per square inch, which is equal to, if not in excess of, the breaking strain of any belt that has been produced.



Raw-Hide Belt Lacing

	List Price.	Retail Price.
¾-in., per 100 ft.....	\$3.75	\$3.00
½-in., per 100 ft.....	5.50	4.40
⅜-in., per 100 ft.....	6.50	5.15
¼-in., per 100 ft.....	7.50	5.95



Ready to Saw

STRONGLY BUILT

This machine is made entirely of metal with the exception of the table, which is hardwood. The entire outfit is well made of strong materials and will stand much hard usage.

The bearings used on this machine are of the latest self aligning ball and socket type. They are lined with high speed bearing metal and can be adjusted to take up wear.

This machine can be attached to a Fordson tractor ready for work in less than five minutes, and it is not necessary to do any machine work nor move any bolts on the tractor. It cannot injure the tractor in any way.

Rests on the ground in operation. Folds up to move.

With this outfit the tractor does not have to support the weight of the wood, nor of the machine when it is in use, as the outfit rests on the ground and is only anchored to the tractor. To move, the machine is folded over the tractor where it is securely held. It can be elevated for transportation quite easily by one man.

Can be cranked when up or down.

A simple device is provided for tightening the belt when necessary.

SPECIFICATIONS

Mandrel—Cold rolled steel shafting, 36 inches long, 1 7/16-inch diameter with arbor machined for saws having 1 3/4-inch hole. The mandrel washers are large and accurately machined.

Bearings—Ball and socket type. Self aligning. Can be adjusted to take up wear.

Pulley—Eight inches in diameter with 6-inch crown face. This pulley was designed especially for use with our Fordson Saw Attachments.

Belt—When specified we furnish a high-grade rubber belt 15 feet 2 inches long, which gives splendid satisfaction. A simple arrangement is provided for tightening belt when necessary.

Blade—When specified we can furnish cordwood blades in any size up to and including 30 inches. They are filed and set, ready for immediate use, and are fully guaranteed. We recommend the 30-inch size, which will be found most satisfactory for average conditions.

Price, including Belt and 30-inch Saw Blade.....\$38.50

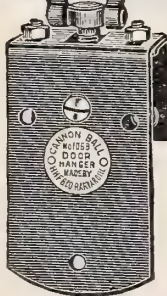
Fordson and McCormick-Deering Tractor Sawing Outfit

Cannon Ball Barn Door Hanger

No. 1068



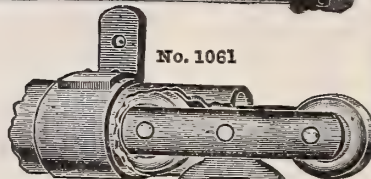
No. 1068—Adjustable Barn Door Hanger; has roller bearings, flexible joint, tandem wheels, underslung carriage, lateral and vertical adjustments. For doors from 1 1/4 to 2 1/2 in. thick, up to 400 lbs. Price, per pr., \$2.50



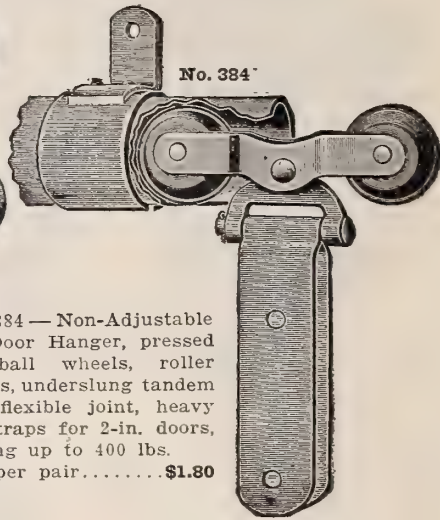
No. 1061—Cannon Ball Jr. Barn Door Hanger, flexible, non-adjusting roller bearing machined wheels, one-piece heavy steel door strap. Price, per pair.....\$1.20

No. 1082—Cannon Ball Jr. Adjustable Barn Door Hanger. Lateral and vertical adjustments, tandem roller bearing machined wheels, heavy one-piece door strap, for doors weighing up to 250 pounds, 2 inches thick. Price, per pair.....\$1.70

No. 1061



No. 384



No. 384 — Non-Adjustable Barn Door Hanger, pressed steel ball wheels, roller bearings, underslung tandem truck, flexible joint, heavy steel straps for 2-in. doors, weighing up to 400 lbs. Price, per pair.....\$1.80

Track Brackets not included in price of hangers.

Track Brackets, Joint and Center, each.....	\$0.20
Track Brackets End, each.....	.17
Cannon Ball Track, in lengths 3, 4, 6 or 8 feet, per foot.....	.25
Cannon Ball Jr. Track, 3, 4, 6 and 8 feet, per foot.....	.17
Lag Screws for Track Brackets, each.....	.03
Flexo No. 397 for 1 1/4-in. Flat Track.....	\$1.40
1 1/4-in. Track for 947 and 949 Hangers, per foot....	.10

Flexible Hinge Barn Door Hanger

No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1 1/4 inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Weight, dozen pairs, 70 pounds. Weight, track, per 100 feet, 105 pounds. Retail, per pair, \$1.25. Track, Retail, 12c.



STAY ROLLERS

For use with Barn Door Hangers. Price, each, 20c.

LOUDEN RAINITITE BARN DOOR TRACK AND HANGERS

The Louden "Raintite" Barn Door Track is all that the name implies. It is a one-piece track which completely houses in the trolley and covers over the top of the door, making the entire outfit both storm and waterproof.

The Raintite Hanger is fastened to the back or inside of the door instead of the outside; thus, doors of any thickness may be hung from it by using bolts of the right length.

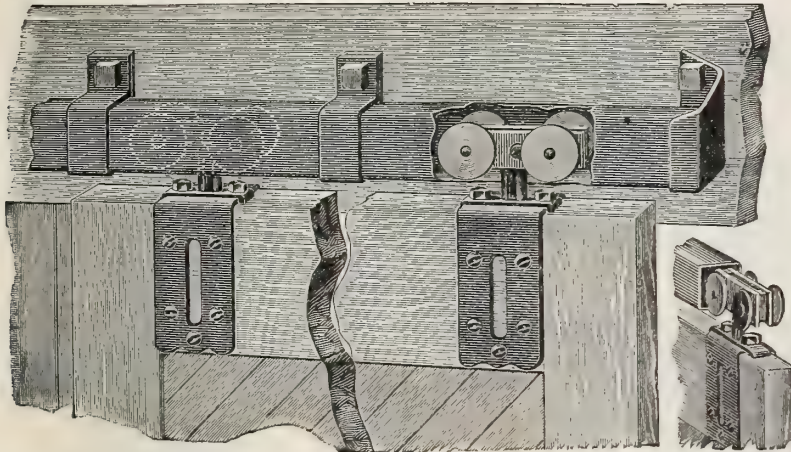
For all kinds of doors, large and small. Trolley travels inside, cannot get off track, 1 1/2 inches wide, 3 inches deep. Track fastens to building by lag screws spaces 12 inches apart, supported between lag screws by nails. End stop and splices packed with trolleys. Track made out of one piece of steel. Lower edge of cover extends out over and down beyond the upper edge of the door, making it absolutely weather tight. The downward bend in the water shed projection gives great strength to the track.

Track furnished in 4-foot, 6-foot and 8-foot lengths. Wt. of track per foot, 2 1/2 pounds.

Hangers are adjusted from inside of building, adjustable parts are protected from outside weather conditions. Hangers may be adjusted in and out or up and down as much as 3/8 in. all without taking the door off the track; frame or saddle for trolley wheels are made out of steel. Trolley 2 3/4 inches in diameter made out of special quality grey iron. These large trolleys make easy running doors. Hanger frame that attaches to door made out of certified malleable iron. The highest quality malleable iron made.

Treads of trolleys accurately machined to fit grove of track, so as to insure perfectly smooth and easy operation of door. Distance on center of trolley wheels, 4 inches.

Track per foot.....	\$.25
Adjustable Hangers, per pair.....	2.00



NO. 25 TROLLEY ROLLER-STEEL BARN DOOR BEARING HANGER

Has two adjustments—vertical and lateral. Has return apron. (See cut). Pendant 9 inches long, 3½ in. wide, 3-16 inch thick. Suitable for doors 2 to 3 inches thick and weighing from 400 to 600 lbs. Made to run on No. 31 track. A pair of hangers consists of two hangers and carriers, one right and one left-hand bracket, complete with screws for hangers and lag screws for brackets. Hangers and track sold separately. When ordering always give thickness of door, exact width of opening and state whether for single or double door.

Per Pair, \$2.70. No. 31 Track, per ft., 25c.

TROLLEY TRACK AND TRACK HANGERS

No. 31 Trolley Track is made from 16-gauge steel. The square shape in which it is made gives it great strength. The trolley is entirely inclosed inside of track, making it weather-proof. 4, 6, 8 and 10-foot lengths.

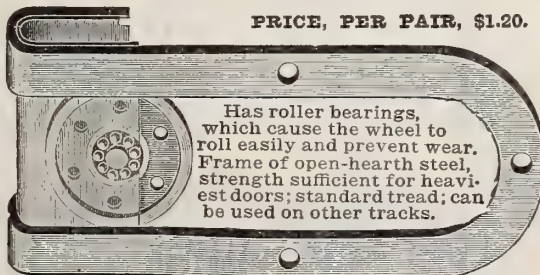
Per Foot.....25c.

Extra Single Brackets for Trolley Track, each22c.

Double Brackets, each70c.

Anti-Friction Barn Door Hanger No. 2

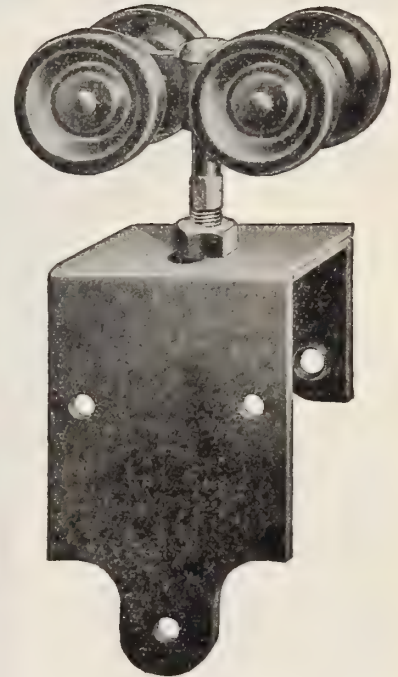
The track is made of special carbon open-hearth steel, 1 by 3/16 stock; has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4, 6, 8 and 10-foot lengths. Price, per foot.....10c.



PRICE, PER PAIR, \$1.20.

Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks.

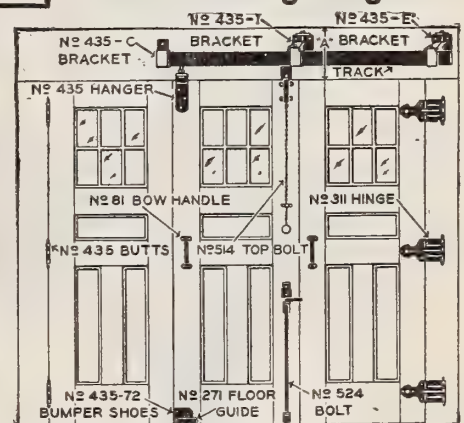
No. 20-2 BARN DOOR HANGER



For doors weighing up to 300 pounds. 2¼-inch steel wheels, steel roller bearings, 6-inch apron. For doors 1¾ to 2½ inches thick. Packed one pair of hangers with bolts, one joint and two end brackets. Hangers adjustable, vertical and lateral. 8½ pounds per pair.

Price\$2.50
No. 31 Track, per foot......25

R-W Slidetite Garage Door Roller Bearing Hangers



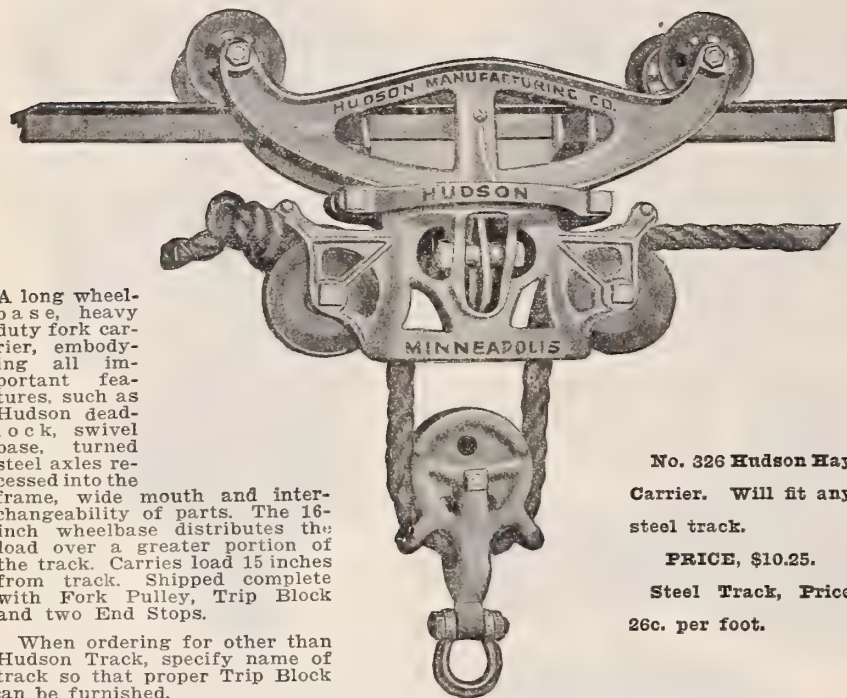
Garage doors equipped with this fixture fold and slide inside building, requiring only minimum space. Recommended for doors not over three feet wide.

With this equipment, four doors hinged together in pairs make an ideal arrangement for the ordinary garage doorway, one pair folding to each side of opening. When desired, however, three, five or six doors can be used, in which case the center doors swing free, making convenient entrance doors.

SETS

No. 435—A3—31 Up to 9-ft. opening..\$11.60
No. 435—A4½—31 Up to 12-ft. opening 13.50
No. 435—A5—31 Up to 15-ft. opening. 20.00

Hudson No. 326 Adjustable Hay Carrier



A long wheel-base, heavy duty fork carrier, embodying all important features, such as Hudson dead-lock, swivel base, turned steel axles recessed into the frame, wide mouth and interchangeability of parts. The 16-inch wheelbase distributes the load over a greater portion of the track. Carries load 15 inches from track. Shipped complete with Fork Pulley, Trip Block and two End Stops.

When ordering for other than Hudson Track, specify name of track so that proper Trip Block can be furnished.

No. 326 Hudson Hay Carrier. Will fit any steel track.

PRICE, \$10.25.

Steel Track, Price 26c. per foot.

Harpoon Hay Fork



No. 1—Double Harpoon Hay Fork, 25-in. tines. Retail, \$2.75.

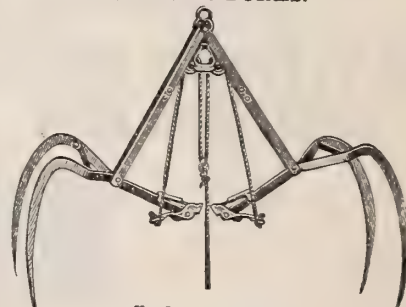
No. 1½—Double Harpoon Hay Fork, 31-in. tines. Retail, \$3.00.

G. & T. No. 1.

No. 2—Nellis Single Harpoon Fork. Retail, \$5.50.



GRAPPLE FORKS.

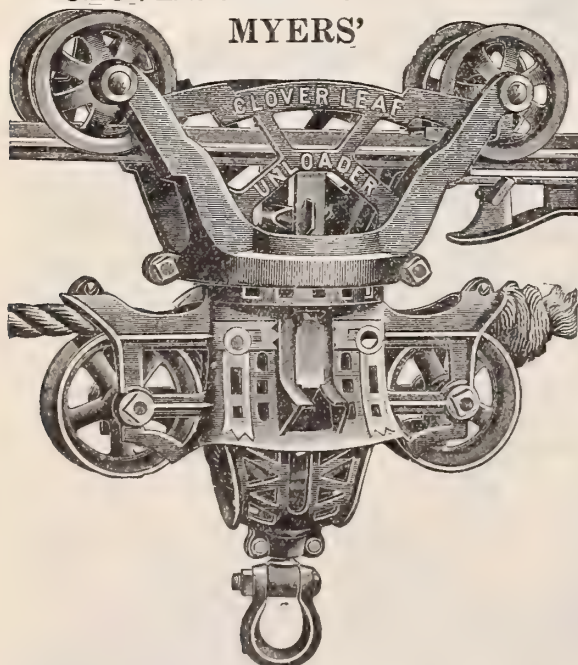


G. & T. No. 4

No. 4—4-Tine Aut. Grapple Fork. Retail, \$12.50.

No. 6—6-Tine Aut. Grapple Fork. Retail, \$14.50.

CLOVER LEAF UNLOADER MYERS'



The new Clover Leaf Unloader, made of malleable iron throughout. Has 16-inch truck. It is heavy and substantially built. Fitted with large open mouth to receive the fast pulley when approaching it from any direction. Has swinging fork pulleys.

Price\$10.50
Steel Track, per foot.....25

PULLEYS



No. 9



No. 10



No. 11



No. 12

No. 9 Maple Sheave 65c.
No. 10 All Iron.... 65c.
No. 11 Knot Passing 75c.
No. 12 Wood Frame with Hook..... 65c.
No. 13 Wood Frame with Eye..... 65c.

G. & T. No. 14. SWIVEL ROPE HITCH



No. 14—Swivel Rope Hitch. Retail, each, 40c.

Rafters Brackets

G. & T. No. 4.

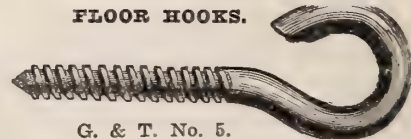
No. 4—Rafters Bracket, steel.

Retail, each, 6c.

No. 4—Rafters Bracket, malleable.

Retail, each, 6c.

FLOOR HOOKS.



G. & T. No. 5.

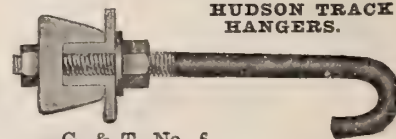
No. 5—Floor Hook, ¾-inch.

Retail Price, 18c. each.

No. 5—Floor Hook, ½-inch.

Retail Price, 15c. each.

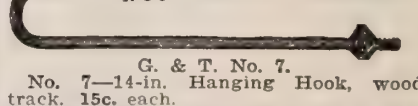
HUDSON TRACK HANGERS.



G. & T. No. 6.

No. 6—Hanging Hook, steel track. Retail, 18c. each.

WOOD TRACK HANGERS



G. & T. No. 7.

No. 7—14-in. Hanging Hook, wood track. 15c. each.

MYERS TRACK HANGERS



Price, 18c.

SLINGS

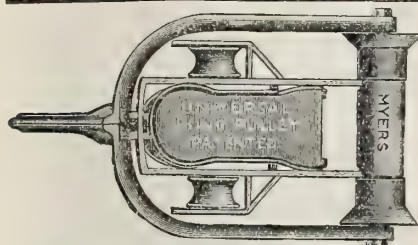
Made adjustable to suit any length of rack, from 17 to 20 feet.
G. & T. No. 15.



No. 15—Center Trip Sling, 4-foot bars.....**\$4.75**
No. 15—Center Trip Sling, 5-foot bars.....**6.50**

Sling Pulleys

G. & T. No. 16.



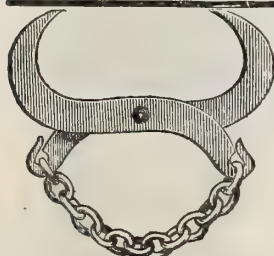
No. 16—Universal Sling Pulley.....**\$4.50**
No. 16—Ideal Sling Pulley.....**4.50**
No. 16—Baltimore Sling Pulley.....**4.50**

RAFTER GRAPPLE

G. T. No. 17.

No. 17—Rafter Grapple, Steel,

\$1.25 each.



	Our	
	Special	
	Price.	
	Each.	
No. 18—Hoisting Single Tree.....	Each,	\$2.00
No. 19—Snatch Blocks.....	Each,	1.35
No. 20—Extra Trips or Stops for Cars.....	Each,	1.00
No. 21—Coupling for Track.....	Each,	.35
Rafter Nails, per pound.....	Each,	.15
Steel Track, per foot.....	Each,	.26

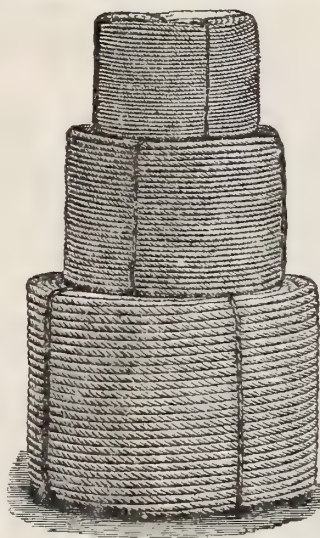
ROPE

Our stock of rope includes all sizes, from 3-16-inch up to 1 inch. These sizes we carry in stock and can furnish same in full coils or by the piece as desired. The quality of our rope is the best, and we will be pleased to name you the best possible price consistent with quality. We are unable to give prices here, as the market changes.

For Hay Forks we recommend $\frac{3}{4}$ -in., 13-16-in. and $\frac{1}{2}$ -in., according to the length of rope.

Approximate length of Manila rope per pound, $\frac{3}{4}$ -in., 6 feet to pound; 13-16-in., 5 feet to pound, and $\frac{1}{2}$ -in., 4 feet 3 inches to the pound.

Write for Prices.



Binder Twine

It is impossible to give the price of Binder Twine in advance, as the price is subject to market changes.

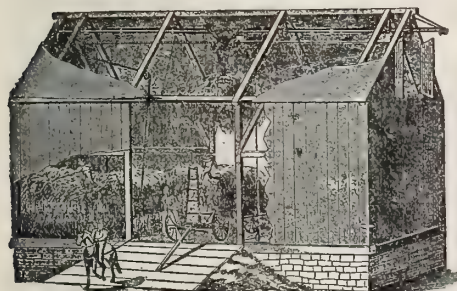
WRITE FOR PRICES.



FODDER YARN

PRICES ON APPLICATION.

Material Required for a Steel Track Outfit



For a 40-foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet $\frac{3}{8}$ -inch reverse rope.

For a 50-foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet $\frac{3}{8}$ -inch reverse rope.

For a 60-foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila ropw, 60 feet $\frac{3}{8}$ -inch reverse rope.

IRON-STRAPPED BLOCKS



Size of Sheave. Inches.	Diam. Rope. Inches.	Length Shell. Inches.	Common Iron Bushed.					
			Single.		Double.		Triple.	
			List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
3 1/2 x 1 1/2	3/4	6	\$1.10	\$.88	\$2.00	\$1.60	\$2.90	\$2.37
4 1/4 x 1 1/2	7/8	7	1.30	1.04	2.40	1.92	3.50	2.80
4 3/4 x 1 3/8	1	8	1.65	1.32	2.85	2.28	4.25	3.40
5 1/2 x 1 3/8	1	9	1.85	1.48	3.40	2.72	4.75	3.80
6 1/4 x 1 3/8	1 1/4	10	2.75	2.20	4.50	3.60	6.25	5.00
7 1/4 x 1 3/8	1 1/2	11	4.45	3.56	7.50	6.00	10.65	8.52
8 x 1 3/8	1 3/4	12	4.45	3.56	7.50	6.00	10.65	8.52
Patent Roller Bushed.								
			List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
3 1/2 x 1 1/2	3/4	6	\$1.50	\$1.20	\$2.85	\$2.28	\$4.40	\$3.52
4 1/4 x 1 1/2	7/8	7	1.70	1.36	3.35	2.68	5.00	4.00
4 3/4 x 1 3/8	1	8	2.25	1.80	4.15	3.32	6.00	4.80
5 1/2 x 1 3/8	1	9	2.50	2.00	4.70	3.76	7.25	5.80
6 1/4 x 1 3/8	1 1/4	10	3.50	2.80	6.00	4.80	8.50	6.80
7 1/4 x 1 3/8	1 1/2	11	5.30	4.24	9.20	7.36	13.20	10.56
8 x 1 3/8	1 3/4	12	5.30	4.24	9.20	7.36	13.20	10.56

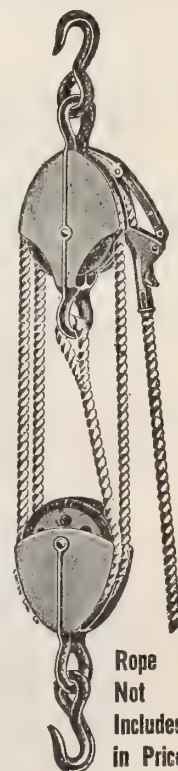
GRITCO HOIST

No. 40.—Two sheaves above, two sheaves below; for $\frac{1}{2}$ -inch rope; capacity, 1500 lbs. One man can lift 400 lbs. 3-inch sheaves.

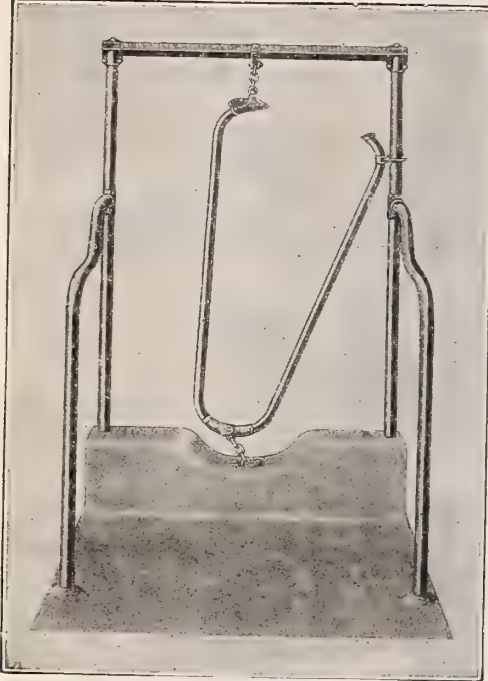
Factory list, \$4.00. Our Special Price, \$3.00.

No. 34.—Two sheaves above, 2 sheaves below; for $\frac{1}{2}$ inch to $\frac{3}{8}$ inch rope; capacity, 3000 pounds. One man can lift 500 pounds 4-inch sheaves. **Factory list, \$6.00. Our Special Price, \$4.50.**

No. 28.—Two sheaves above, 2 sheaves below; for $\frac{3}{4}$ inch to $\frac{1}{2}$ inch rope; capacity, 4000 pounds. One man can lift 600 pounds 5-inch sheaves. **Factory list, \$10.00. Our Special Price, \$7.00.**



Rope Not Included in Price



No. 1A Stall.

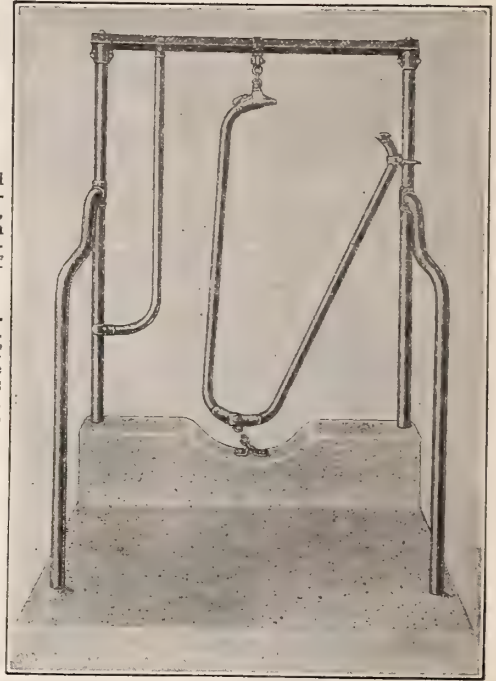
No. 1A191—One Post Stall with No. 90 Stanchion **Price, \$8.35**
 No. 1A105—One Post Stall, with No. 105 Wood Lined Steel Stanchion, **Price 9.25**

Hudson Cow Stalls and Stanchions

All Hudson Stalls are furnished with long Angle Iron Base Anchors as illustrated on this page, unless otherwise ordered. When anchor is not desired a slight reduction from regular list price of stalls is allowed the purchaser.

As may be seen from the illustration, the two angle iron anchors extend the full length of the stall row. To the front one are bolted all the stall uprights and pipe anchors for stanchions, and the partitions are bolted to the one at the rear.

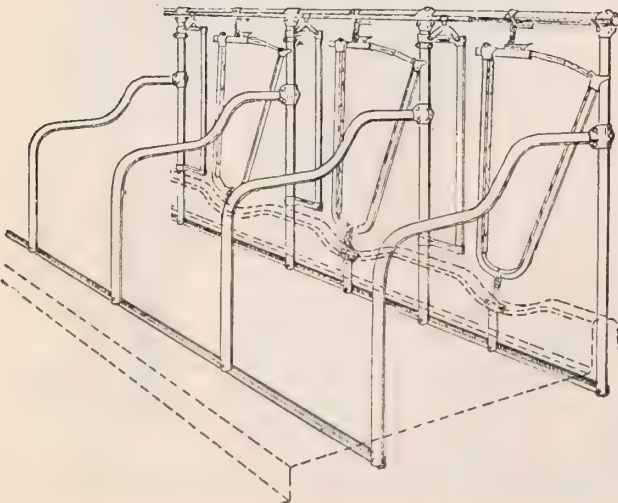
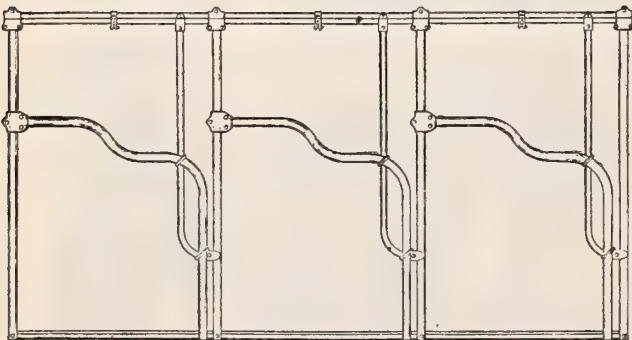
This makes it possible to ship the stalls in batteries of 2 or 3 stalls each, all set up ready to install. The entire row can be put together and will stand without the maze of props and braces which are such a nuisance when setting up many other makes of stalls. Think of the possibility of having your entire installation bolted together and standing in position, enabling you to judge of the final suitability of your layout before beginning to pour cement. For should this "size-up" indicate the desirability of a slight shift, one way or the other, it can be made before it is too late.



No. 2A Stall.

No. 2A105—Stall with No. 5 Wood Lined Stanchion..... **Price, \$10.40**

SHOWING HUDSON STALLS AS SHIPPED



Assembled at the factory instead of on the farm. No chance for shortage. Job always complete.

SHOWING METHOD OF INSTALLING HUDSON STALLS

All uprights and partitions securely bolted to angle iron anchor. Angle also acts as base to hold uprights and partitions in proper place, and reinforces the concrete.

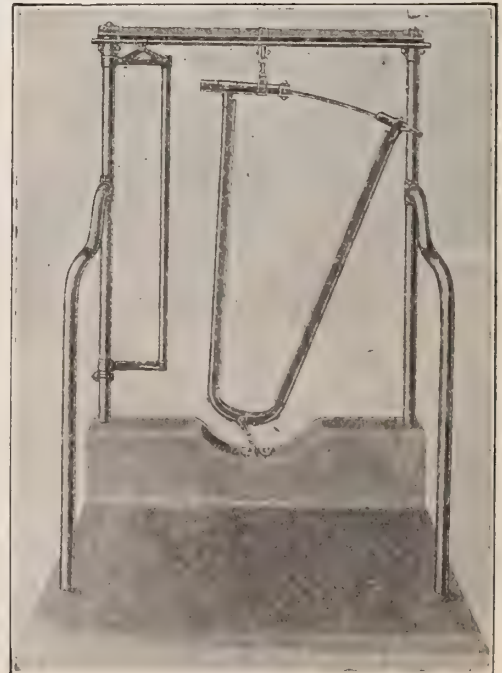
MANGER DIVISION FOR COW MANGERS

\$3.00

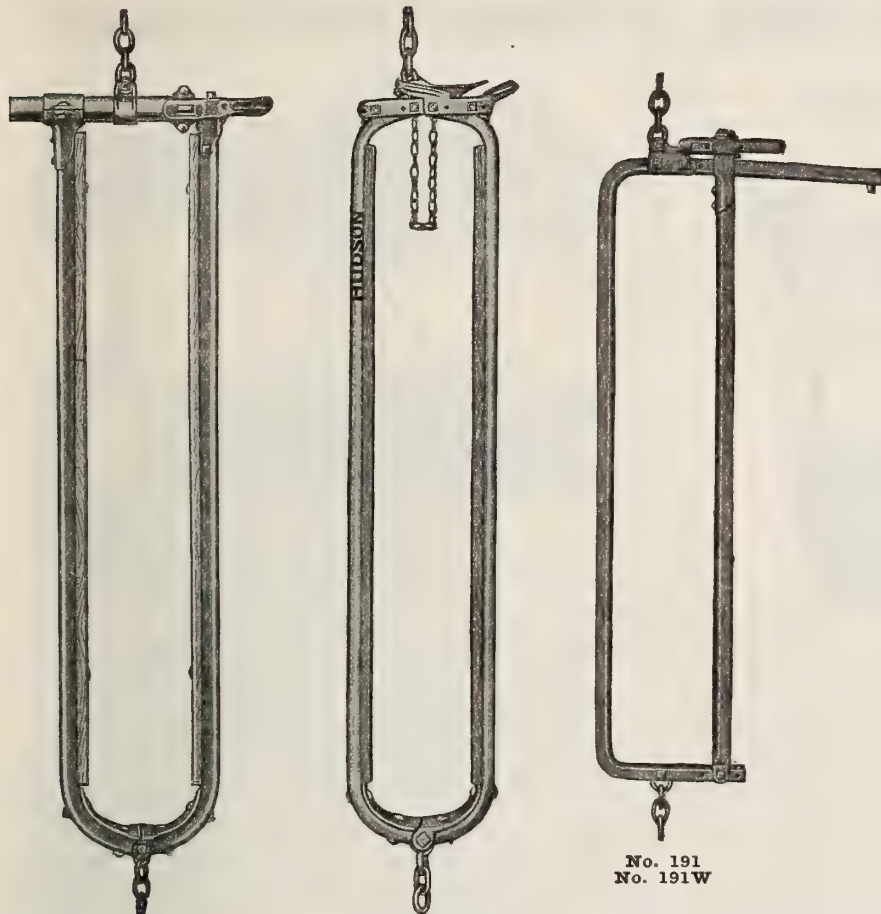
After the cement has been poured, the stalls will never become loosened in the cement, while the anchors and tubing furnish a re-inforcement between the floor and curb. We are fully convinced by the results during the year we have used it that our methods of anchoring is the very best that can be devised.

NO. 4B STALL

with swinging sure stop and with No. 110 adjustable wood lined stanchion. **Price, F. O. B. Factory.....\$12.50**
 No. 4B105 Stall with swinging sure stop and No. 105 stanchion. **Price, F. O. B. Factory.....\$11.70**



HUDSON STANCHIONS



No. 110

No. 105

No. 191
No. 191W

HUDSON STANCHION No. 191

Steel U Bar Stanchion with heavy steel fittings; no castings used. Latch made of pressed steel, protected so the cow can not open it. Weight 19 lbs.

Price\$2.95

HUDSON STANCHION No. 191W

This stanchion is the same as the No. 190, only that the steel U bar has a wood lining on it. Weight, 20 lbs.

Price\$3.25

HUDSON STANCHION No. 105

This stanchion has been made for over 25 years, and is one of the highest grade stanchions that sells for a reasonable price. High carbon, rust-resisting steel U bar and non-breakable malleable fittings. Wood linings specially seasoned hardwood, finished in oil. Linings are pressed into the steel U Bar so they can never split. Latch is of One Hand Lift type, locks automatically by the weight of the stanchion itself. Neck Space is adjustable from 6½ in. to 8 in., which is ample to take care of any cow. Weight approximately 23 lbs.

Price\$3.85

HUDSON STANCHION No. 110

This stanchion is offered to dairymen who want the very best. It is the strongest and most easily operated stanchion ever built. High Carbon, rust-resisting steel U Bar and certified malleable fittings. Selected Hard Wood Linings thoroughly seasoned and polished. Inserted into U Bar under pressure and securely fastened. Adjustable Neck Space from 6½ to 8 inches. Weight approximately 27 lbs.

Price\$4.80

HUDSON STEEL WATER BOWL



The Hudson New Steel Water Bowl will not break. The bowl has a greater capacity and is easier handled; made of one piece of heavy gauge steel, galvanized, and attached by means of a special designed clamp, which grips the bowl so firmly that there is no possibility of it being knocked off by the cow.

Made of 14-gauge steel; formed with a heavy rolled rim and galvanized afterwards, so that the galvanizing will not be cracked in the process of manufacture.

Size, 4½ inches deep, 10 inches across the top.

Best Malleable Fittings, Brass Valve Fitted with standard size

Rubber Fuller Ball, same as used in any ordinary water faucet; easily replaced. Valve seat of brass; will not rust. Pressure plate made of Malleable Iron, and rests low in the bowl, thus avoiding interference with the cow's muzzle in drinking. 1-inch pipe should be used for main supply pipe and ¾-inch for the short length to connect the bowl to the main supply pipe.

Bowl weighs 6½ pounds each.

Price\$3.60

HUDSON SANITARY STEEL PENS

No. 58A—Steel Cow Pen illustrated below is ideal for a maternity pen and can be used for a testing or feeding pen.

Specifications: The panel bars of the No. 58A Pen are 1 1/16 in. O. D. High Carbon Steel Tubing, spaced not over 6 in. on center with strong malleable iron fittings. Corner posts, Intermediate Posts, Gate Posts, Top and Bottom Rails and Gate Frame are 1½ in. O. D. High Carbon Steel Tubing. The gate is furnished with heavy malleable hinges and is supplied with a latch that has a gravity lock, which can only be opened by the operator. The pen is 4 ft. 9 in. high.

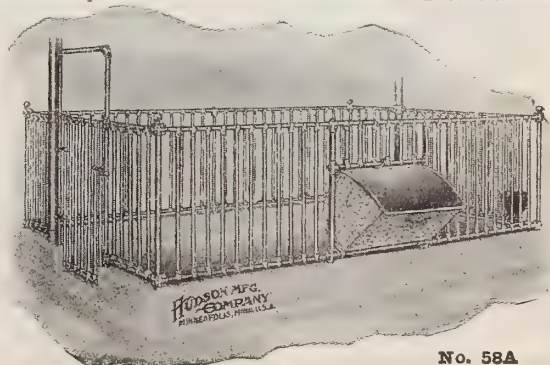
Hudson Cow Pens can be furnished with any style corner or square manger, and with adjustable stanchion built in panel if desired. Weight, 22 lbs. per lineal foot. Price, per foot, \$2.60.

Cow Pen Gate Fittings and Arch, per set.....\$7.50

Cow Stanchion Built in Panel, each.....3.75

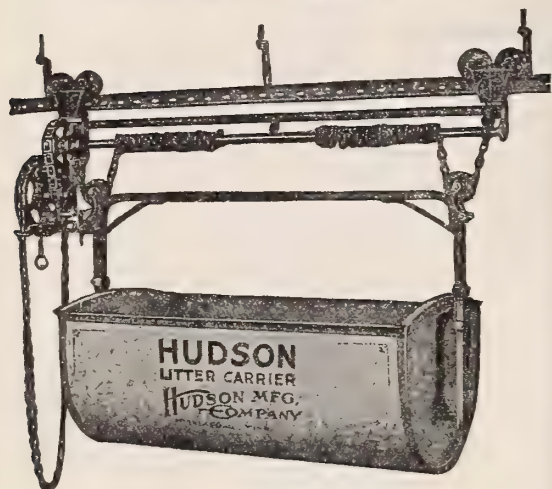
No. 62 Cow Pen, Galvanized Tilting Manger.....16.00

Write for prices on Calf and Bull Pens. F.O.B. Factory.



No. 58A

Hudson Chain Hoist Litter Carrier

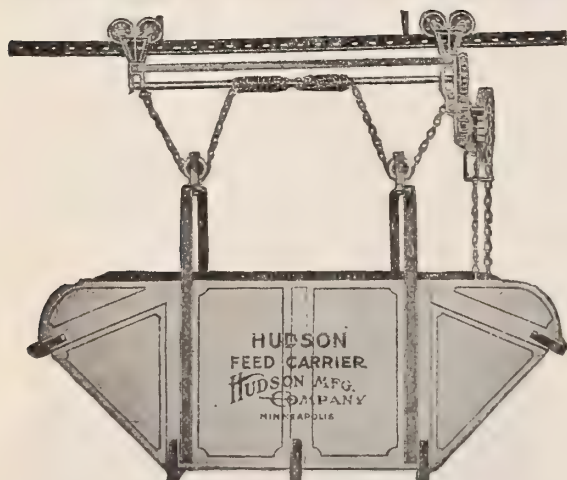


No. 58B.—Rigid Track Only.

This Hudson Heavy Duty Back Geared Litter Carrier is the result of long years experience in the carrier business. This carrier combines great strength and rapid action. It will carry the heaviest loads with perfect ease. The hoisting chain is of special strength and is of a length to correspond with the shaft on which it winds. Longer chains furnished if specified for special jobs. Carrier is equipped with friction brake. The tub is made of heavy galvanized sheet steel reinforced around the top and ends with 1 inch angle iron closely riveted. The carrier locks at both ends, which increases the life of the carrier. The bale is constructed of 1 inch by 1½ inch channel steel strongly reinforced. The chain shaft is 1 inch cold rolled steel. Full swiveled, tandem trucks which give greater bearing on the track and ease in turning corners.

No. 58B—Tub, 44 inches long, 26 inches wide, 22 inches deep, inside measurements, capacity, 13 bu. Weight, 200 lbs. Price, \$50.00.

HUDSON FEED CARRIER



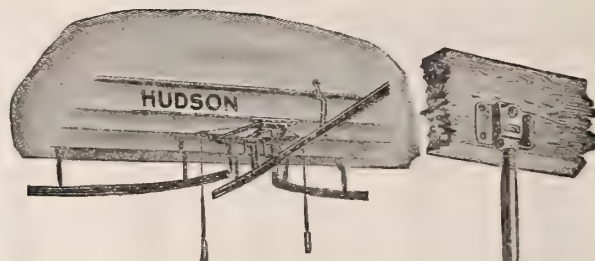
No. 40C.

The Hudson Raising and Lowering Feed Carrier has all the track operating features found in our celebrated line of litter carriers, and is furnished with a tub or a carrier box, that is made of selected materials, and shaped so that the operator can work from either end when feeding.

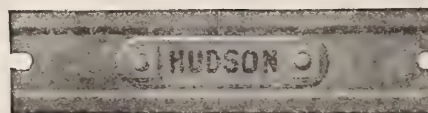
Equipment can be furnished for the installation of a system of trackage in connection with the litter carrier system.

Capacity, 16 bushels. Weight, 225 pounds. Price, \$48.00.

Hudson Track Equipment



No. 104.



No. 102.

No. 90A.

No. 102—I-Beam Track—This track with hangers placed two feet apart will carry many times the load it will ever be called upon to sustain. It is not necessary to have bends made at the factory as the track can be curved to fit when being installed.

No. 103—Two Way all Steel Mounted Switch.

No. 104—Three Way all Steel Mounted Switch.

High quality steel and malleable iron are used in the construction of these switches, insuring durability.

Mounted and ready for installation—need no assembling on the job.

Either two or three way switches, right or left hand, can be furnished. Both styles operate in same manner.

No. 102—Track, per foot.....	\$.20
No. 90B—Hangers, 4 inch, each.....	.36
No. 90F—Hangers, 8 inch, each.....	.40
No. 90L—Hangers, 12 inch, each.....	.45
No. 90P—Hangers, 16 inch, each.....	.50
No. 103—Two Way Switch.....	8.40
No. 104—Three Way Switch.....	10.00

Hudson Floor Feed Truck



This a very convenient and durable truck, built of selected lumber well put together and strongly reinforced.

Load is evenly balanced on wheels, making truck easy to handle. Wheels are located so that truck may be turned in its own length.

Main wheels are fourteen inches high with a two inch face. Castor wheel is seven inches in diameter. Axle is one inch cold rolled steel shafting. Capacity sixteen bushels.

This truck can be furnished with or without the Hudson Scale Arch.

No. 141 Hudson Floor Feed Truck, galvanized steel bottom. Weight, 210 pounds. Price, \$40.00.

STAR GALVANIZED STEEL SUBURBAN TOWERS

FIG. 665

**COMPLETE WITH ANCHOR POSTS AND PLATES AND
HEAVY STEEL SUPPORTS FOR TANK**

The Star Windmill Suburban Outfit, here illustrated, is a valuable equipment for the country home. It provides a good supply of water for the gardens and lawn, for cooking and drinking purposes, and for the toilet and bathroom, affording the very best sanitary conditions. The tank can be elevated high enough on the inside of the tower to force the water into various parts of the building. The pressure is sufficient for sprinkling and other purposes. The outfit affords complete water conveniences at nominal cost. The tower is of the same construction as our regular windmill towers, but with the portion below tank, and anchor posts, made of heavier material than the upper portion. The tower is amply strong to safely support the mill, and the tank filled with water.

The following prices do not include windmill but include tank:

FOR 8 OR 10-FOOT WINDMILL

No.	Height of Tower, Feet	Elevation of Tank, Feet	Capacity of Wood Tank, Barrels	Weight of Tower, Pounds	Price of Tower
T4	40	20	21	1001	\$200.00
T5	45	25	21	1186	212.50
T6	50	30	21	1344	225.75
T8	60	40	21	1774	260.00
T16	50	25	40	1495	278.00

HUDSON LEVER HOIST LITTER CARRIER

MAKE A CLEAN JOB OUT OF A DIRTY ONE

Specifications

Hoist: Ratchet and drum. Very simple. Drops tub to floor in an instant or it can be lowered slowly, as desired. Lifts loaded tub in 10 seconds or less. Tub has regular drop of 8 feet. Extreme leverage and little friction make it quickest and easiest lifting carrier. Hands do not become soiled with manure. Lever is always clean and is used to push carrier out of barn.

Absolute Control Brake: Best bar steel, 1 inch x 3/16 inch, with knob handle 2 1/2 inches in diameter.

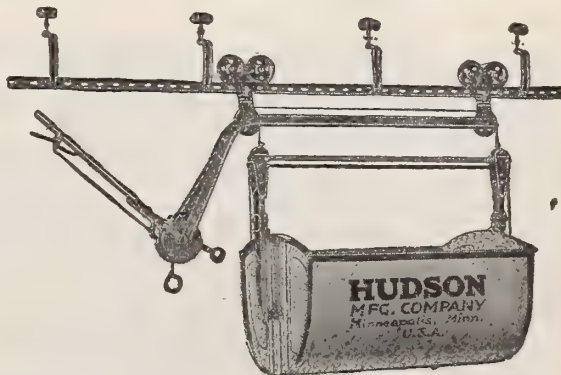
Drum: Gray iron, 3 3/4 inch x 7 1/2 inch diameter.

Lifting Cable: Best crucible steel, 1/4 inch diameter.

Lift Cable Pulleys: Gray iron, 4 1/2 inch diameter, grooved and machined to prevent wear on cable.

Lever and Hoist Frame: 2 inch x 1/4 inch steel bars, which support the drum and sheaves or cable pulleys.

Bail: Heavy 2x1x3/16 inch channel with sturdy certified malleable corner reinforcements. Relieves the strain of lifting load so damaging to tub when cross bar on bail is not furnished. Adds years of life to carrier. Does not interfere with loading of tub.



Tub: Hudson long service construction, channel bail reinforcement.

Latches: One at each end of tub, reinforce strength of tub end.

Track Wheels: Roller Bearings, 4 3/4 inch diameter, gray iron. Mounted in tandem or one behind the other in malleable swivel wheel frames to take curves without wheels binding on track. Journals and wheel axles all machined.

Track Wheel Frames: Certified malleable. Prevent wheels from jumping track.

No. 40B: Capacity 13 bushels. Size of tub 42x28x24 inches. Weight 174 lbs.

PRICE..... \$51.00

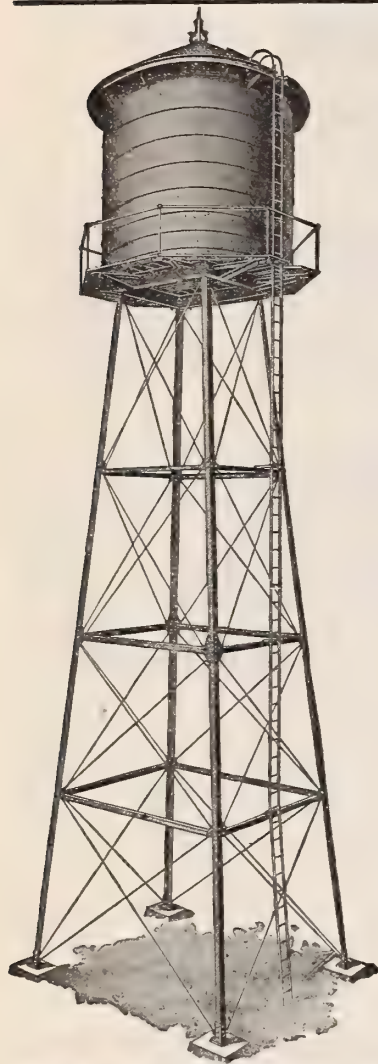
Cellar or Boat Pumps

These pumps can be used for numerous purposes, such as pumping out cellars, boats, cisterns, wells, ditches and any other place that you want to get the water out quickly.

Made of 3 inch heavy galvanized sheet steel, reinforced, making them very strong. I large, open spout allows the water to flow without interruption. Every contractor, farmer and boat owner should have one.

3 feet long.....	\$6.00
4 feet long.....	6.00
6 feet long.....	6.00
8 feet long.....	6.50
10 feet long.....	7.00

STAR WINDMILLS AND TOWERS



No. 2 FOR 8 AND 10-FOOT WINDMILLS.

Bands 5 feet apart.
Braces 10 feet apart.

Prices:

Height, Feet.	Weight, Lbs.
30.....	\$46.50
40.....	67.75
50.....	94.00



MODEL 24-STAR GALVANIZED STEEL BACK-GEARED WINDMILLS

WITH TIMKEN ROLLER BEARING

8 Foot	Price \$57.75
10 Foot	79.00

BAKER TOWERS FOR WINDMILLS

FOR 8 OR 10-FOOT WINDMILLS

40 Foot	\$50.00
45 Foot	55.00

APPLETON TOWERS FOR WINDMILLS

FOR 8 OR 10-FOOT WINDMILLS

40 Foot	\$50.00
50 Foot	60.00

STANDARD STEEL SUBSTRUCTURES

30-Foot Tower for 6x6 Tank.....	\$100.00
30-Foot Tower for 8x8 Tank.....	125.00
Steel Platform and Girders for 6x6 Tank.....	21.00
Walkway and Pipe Hand Rail for 6x6 Tank.....	59.00
Outside Steel Tank Ladder for 6x6 Tank.....	4.85
Inside Wood Ladder for 6x6 Tank.....	2.85
Steel Top Girders, only, for 6x6 Tank.....	11.00

Extras for 8x8. Prices on Application.

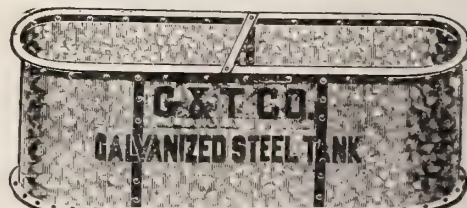
Gulf Cypress Tanks With Round Hoops and Draw Lugs

These storage tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade material and workmanship.

Prices on Larger Tanks
and Covers on request.

PRICE LIST.

Length of Stave, Feet.	Diameter of Bottom. Feet.	No. of Hoops.	Capacity, Gallons.	Price, 1½-inch Cypress.	Price, 2-inch Cypress.
3	3	3	110	\$ 20.30	\$ 24.50
3	4	3	220	28.00	35.35
4	4	4	283	35.35	43.75
4	5	4	472	48.30	60.80
5	5	5	598	59.50	74.55
6	6	5	1002	77.35	97.30
7	7	6	1701	110.25	137.90
8	8	7	2646	.....	172.55



ROUND-END GALVANIZED TANKS.

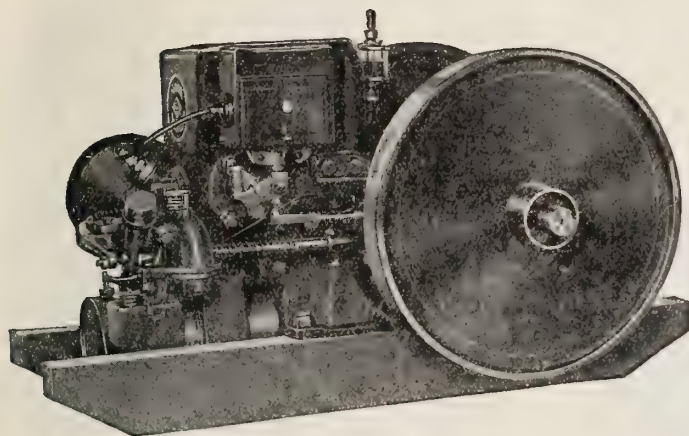
No.	Width, Ft.	Height, Ft.	Length, Ft.	Capacity, Gals.	Weight, Lbs.	Retail.
RE 224	2	2	4	91	74	\$12.60
RE 225	2	2	5	117	88	15.20
RE 226	2	2	6	144	102	17.70
RE2525	2½	2	5	145	93	17.00
RE2526	2½	2	6	178	110	19.80
RE 326	3	2	6	213	134	21.80
RE2528	2½	2	8	245	141	25.50
RE 328	3	2	8	295	156	28.10
RE3210	3	2	10	384	185	34.40
RE 428	4	2	8	386	169	32.40
RE4210	4	2	10	496	203	39.30

ROUND GALVANIZED TANKS

No.	Diam., Ft.	Height, Ft.	Capacity, Gals.	Weight, Lbs.	Retail
R32	3	2	91	69	\$12.30
S43	4	3	240	115	20.40
S44	4	4	310	145	24.80
R42	4	2	150	97	15.80
S45	4	5	408	168	29.60
S46	4	6	490	191	34.40
S54	5	4	520	181	31.50
S55	5	5	660	211	37.50

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Fuller and Johnson Engines



Model ND

SIMPLE TO OPERATE: Note the absence of complicated parts in the engine illustrated. Every unnecessary part is eliminated. This extreme simplicity makes Fuller and Johnson engines very easy to operate.

WELL BALANCED: Each fly-wheel is separately balanced before it is put on the shaft. Then as a final test after the engine is completely assembled it is mounted on an iron plate with straight steel rollers where the slightest vibration can be detected. The engine must satisfactorily pass this test. In a well balanced engine internal strain and friction is reduced to a minimum. This assures steadier, more even power and much longer life.

RIGIDLY TESTED: After assembly, each engine is thoroughly run in on the test floor. It is then checked by the inspector for compression, ignition, valve-setting, bearing adjustment, etc. After passing this test it is then brake-tested for power. Each Fuller and Johnson engine must develop full rated horsepower. Finally, as an extra protection to the user, just before it is crated for shipment, every engine must pass a final running test by an engine expert. This assures the owner that the engine is not only properly designed and built but having been thoroughly tested and inspected before shipping, it is ready to put right to work.

ECONOMICAL ON FUEL: Our new, improved type of vaporizer reduces fuel consumption to the lowest possible notch. Recently several well-known makes of engines on the market were given a 60-day test. The Fuller and Johnson engine showed the lowest fuel consumption of any engine tested.

To meet an increasing demand for engines on the farm and in the nation's industries we are pleased to present the new Fuller and Johnson horizontal engine models ND, and NB.

Model ND is built in 2, 2½ and 3½ horsepower sizes; Model NB is a hit-and-miss governor, gasoline burning unit. Mounted on steel or wood skids and may be had with enclosed crankcase if desired.

Model NB engines are built in 4½ and 6 horsepower sizes and are of the hit-and-miss governor gasoline burning type. They are mounted on an iron base and may also be equipped with crankcase enclosure.

Simplicity, economy, and reliability characterize these new Fuller and Johnson engines. They are designed and constructed with the same care and precision as the well-known Fuller and Johnson multi-cylinder, vertical, automotive type power units and are likewise famous for surplus power, ease of starting, and long life.

EASY TO START: This most desirable feature is made possible by the individual design of the Fuller and Johnson fuel vaporizer; also by the accuracy with which each piston is individually fitted to its cylinder. This not only creates a good vacuum in drawing in the charge but also good compression when the mixture is compressed and ignited by the fat, hot spark. This one feature alone warrants using a Fuller and Johnson engine. Ask any user.

LONGER LIFE: Because of the simplified design, the freedom from vibration, the large bearings and oversize dimensions of all the parts subjected to hardest wear, together with the extreme care and accuracy exercised in building Fuller and Johnson engines, they give many additional years of service. It is not uncommon to find Fuller and Johnson engines in use 15 to 20 years and still running just as good as ever.

REGULAR EQUIPMENT: Consists of a muffler, cylinder oiler, grease cups, starter crank, and instruction book all packed in one crate.

IGNITION: The Model ND and NB engines are furnished with Wico magneto.

FULLER AND JOHNSON FARM PUMP ENGINE

This is the original Farm Pump Engine—the acknowledged leader in the pumping field. The many thousands now in daily use all over the world testify to the merit and popularity of this remarkable pumping engine.

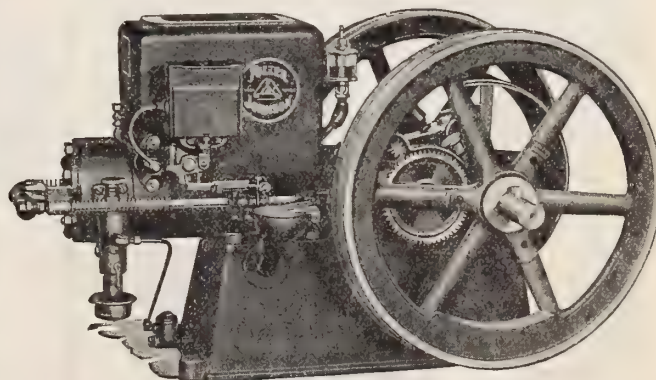
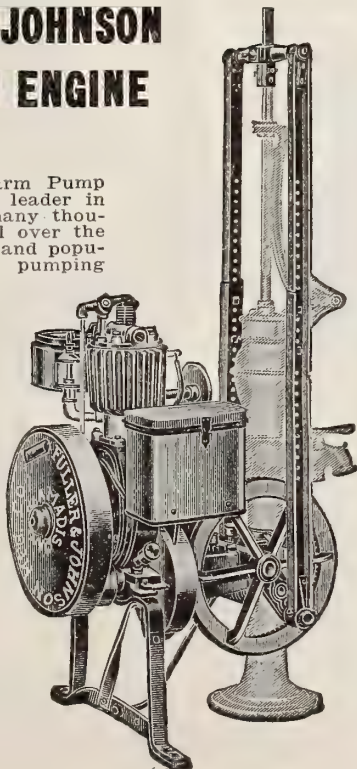
Here are some short, right-to-the-point facts.

Attaches quickly and easily to pump standard. Simple, compact—no complicated parts. Direct connected—no belts necessary. Comes complete in crate; no braces, special platforms or extras of any kind needed. Air cooled—won't freeze or over-heat. Weatherproof—runs perfectly winter and summer alike. Protected gears—lasts longer—safe to operate. Capacity 370 to 2,450 gallons per hour. Also runs washing machine, churn, separator, etc.

The vital question of every farm is its water supply.

With Batteries..... \$90.00

With Magneto..... 100.00



Model NB

PRICES

Model ND

2	Horsepower.....	\$70.00
2½	Horsepower.....	90.00
3½	Horsepower.....	115.00

Model NB

4½	Horsepower.....	\$145.00
6	Horsepower.....	185.00

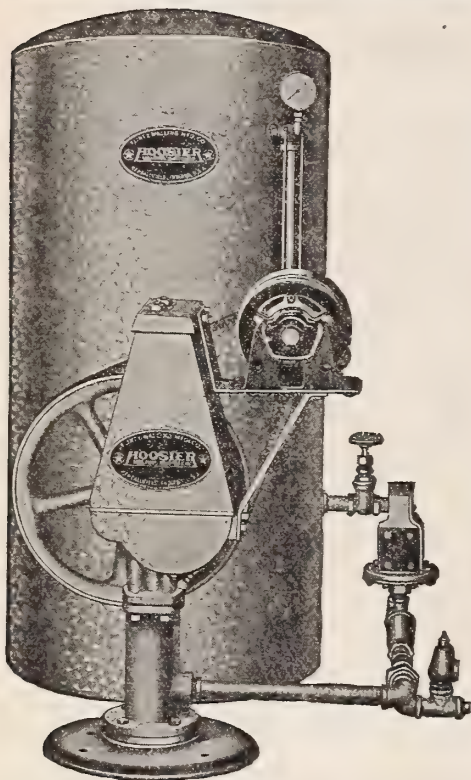


Fig. 456-B

HOOSIER WATER SUPPLY SYSTEM

Hoosier Water Service—Using Hoosier Galvazink Well Pump Fig. 455

We recommend the use of this installation on wells where depth to water is not more than 50 feet.

The complete installation consists of Fig. 455 Hoosier Galvazink Deep Well Pump complete with V-belt and refrigerator type 1-4 H. P. motor, Hoosier Galvazinked water supply tank, Fig. 1351 Automatic Controller, combined pressure and water gauge, gate valve, relief valve, silent check valve, and necessary fittings to connect pump and tank as shown.

Frost-proofing attachment, for protection against damage by freezing, is supplied at a small additional charge.

Pumping cylinder and well pipe are not included as part of this installation.

Figure	Motor	Capacity of Tank	Weight	Price
456	1/4 H. P.	33 gallons	290	\$105.00
456-A	1/4 H. P.	66 gallons	370	110.50
456-B	1/4 H. P.	100 gallons	415	115.50
Fig. 455 Pump only with Motor.....				77.50
Frost Proofing Attachment				6.00

Hoosier Water Service—Using Hoosier Galvazink Deep Well Pump Fig. 460

This Hoosier water service installation, Fig. 460-G, is recommended for use where depth to water is not more than 80 feet. Fig. 460, Hoosier Galvazink Deep Well Pump, completely galvanized and self-lubricating, is supplied with this outfit. This pump is equipped with V-Belt.

The complete installation consists of Hoosier Galvazink Deep Well Pump, Fig. 460, fitted with 1-2 horse power motor, galvanized pressure tank 22 by 60 inches, capacity 100 gallons; Hoosier Automatic Controller Fig. 1351, combined pressure and water gauge, relief valve, silent check valve, gate valve, and necessary fittings to connect pump and tank as shown.

Frost proofing attachment, for use in cold climates, will be supplied at a small additional cost.

Pumping cylinder and well pipe are not included as part of this installation.

Figure	Motor	Capacity of Tank	Weight	Price
460-E	1/2 H. P. A. C.	33 gallons	395	\$139.00
460-F	1/2 H. P. A. C.	66 gallons	475	144.50
460-G	1/2 H. P. A. C.	100 gallons	520	149.50
Fig. 460-A Pump only with 1/2 H. P. Motor.....				112.50
Frost Proofing Attachment.....				6.00
1/6 H. P. Motor A. C., 60 cycle, 110 volt.....				30.00
1/4 H. P. Motor A. C., 60 cycle, 110 volt.....				30.00
1/2 H. P. Motor A. C., 60 cycle, 110 volt.....				35.00

Hoosier Water Service Installation

USING SERIES

200 HOOSIER

GALVAZINK

TWIN PUMP

For use where vertical section is not more than 22 ft. Capacity, 300 gallons an hour. May be had with 33, 66 or 100 gal. all-galvanized tank. Complete installation includes Series 200 pump complete with 1/4 H. P. motor, V-belt, controller, vacuum chamber, pressure tank, floor base, gate valve, relief valve, combined pressure and water gauge, and fittings for connecting pump and tank, as illustrated.

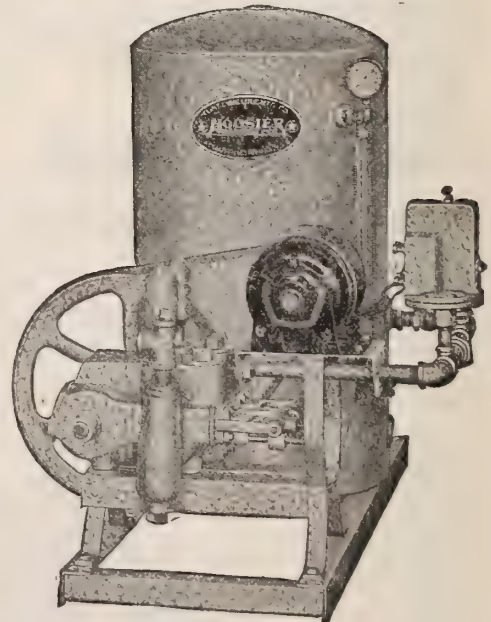


Fig. 261

Figure	Motor	Capacity of Tank	Wt.	Price
231	1/4 H. P. A. C.	33 gallons	280	\$106.75
261	1/4 H. P. A. C.	66 gallons	347	112.55
291	1/4 H. P. A. C.	100 gallons	392	117.65
Series 200 Two cylinders and pump only with A. C. 1/4 H. P. motor and controller.....				\$83.50

The above outfits have double cylinder pumps as shown in cuts.

Figure	Motor	Capacity of Tank	Wt.	Price
131	1/8 H. P. A. C.	33 gallons	244	\$90.00
161	1/8 H. P. A. C.	66 gallons	311	96.00
191	1/8 H. P. A. C.	100 gallons	356	100.25
Series 100 Pump with motor and controller.....				67.00

These outfits have Series 100 Pumps which are single cylinder.

Hoosier Automatic Pressure Controller

Fig. 1351—Automatic Pressure Controller is used for automatically controlling electric driven power pumps. It can be adjusted for any pressure up to 75 pounds and for a variation of 20 pounds. For domestic purposes, it is best to have it cut in and out at 30 to 50 pounds, respectively.

OUR SPECIAL PRICE..... \$6.60

The Hoosier Horizontal Double Acting Power Pump

A compact high-grade double acting horizontal pump for pumping from shallow wells to pneumatic water supply systems. The whole design of this pump is with a view to compactness, strength and accurate operation. The load is well equalized.

Size of Pulley.
No. 1.....10x2 1/2
No. 2.....12x3
No. 4.....20x4

Tapped Inlet Outlet.
No. 1 1 1/4 1 in.
No. 2 1 1/2 1 1/4 in.
No. 4 2 1/2 2 1/2 in. **Fig. 1325**

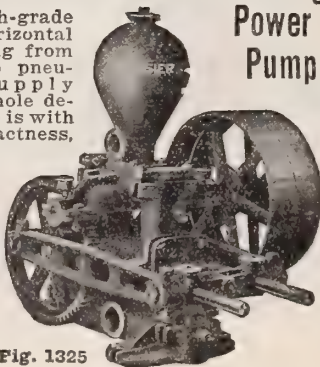


Fig.	Cylinder.	Capacity.	Price.
1325 No. 1.....	2 1/2 x 4	510 gal.	\$44.80
1325 No. 2.....	3 x 5	850 gal.	77.00
1325 No. 4.....	5 x 5	2350 gal.	182.00
Hand Pumping attachment for No. 1...			3.00

For Power Only

Hoosier Power Working Heads

Figure 1552, Center Pulley Drive, geared 6 to 1, tight and loose pulleys, underground discharge, and Fig. 1042 combination air cylinder and air chamber, for Pneumatic Water Supply System service.

Over-all measurements—height 3 feet 4 inches; length 2 feet 2 inches; width 1 foot 3 inches.

Fig. 1551 is Fig. 1552 with upground discharge.

Approximate Capacity—460 gallons per hour with 2½-inch cylinder on 10-inch stroke at 30 strokes per minute, 150-foot maximum lift, or 70 pounds pressure; 1 H. P. required to operate.

Fig.	Pulley	Suc.	Dis.	Price
1551	16x3	3-in.	2-in.	\$58.75
1552	16x3	3-in.	2-in.	64.00

Hoosier Horizontal Double Acting Hand Pump For Shallow Wells

FIG. 1248

Fig. 1248—Hoosier Horizontal Hand Pump, double acting, for general purpose work or pneumatic water service, for use where the suction is not more than 18 or 20 feet. Pump is equipped with large air chamber and rack head, insuring ease of operation. It has 3x5" Brass Lined cylinder and a 3 to 5" adjustable stroke. The pump is tested to 100 pounds pressure. All valve caps, including suction cap, are on the outside and easily accessible. The body is detachable from the body of the pump and in case of breakage of the base it is unnecessary to purchase an entire new pump.

It is fitted with an intake air valve and it can pump both air and water at the same time.

Price of Pump.....\$13.90

Fig. 1552

Hoosier Tank Pump

Hoosier Double Acting Tank Pumps are strongly built, of very large capacity, and especially adapted for threshermen's use. The cylinder is carefully bored and polished. The cylinder has 5-in. stroke, the valves have brass valve seats, and the valves are accessible through hand-holes by removing the plugs. The suction and discharge have 2-in. openings with swivel connections. Furnished with suction connection for 2-in. pipe or 2-in. hose, and the discharge connection for 2-in. pipe or 1-in. hose.

As the pump heads are reversible, the handle can be attached to either end of the pump.

By opening the upper and lower drainage plug, water can be drawn off the pump to prevent freezing.

Price\$16.10

Hoosier Deep Well Outfit 1370A

The complete system consists of Fig. 1370 Deep Well Pump with floor base, Hoosier Pneumatic Tank of horizontal type, with wood supports, 1½ horsepower gasoline engine, with Webster Magneto equipment, 15 feet rubber belting, Fig. 1287 Circuit Breaker, Fig. 1200 Pressure Gauge, Fig. 1201 Water Gauge, Fig. 1204 Relief Valve, gate valves, compression hose bibb, swinging brass check valve, together with pipe and close fittings to connect pump and tank, and tank and service line, as illustrated. Pumping cylinder and well pipe are not included as a part of this installation.

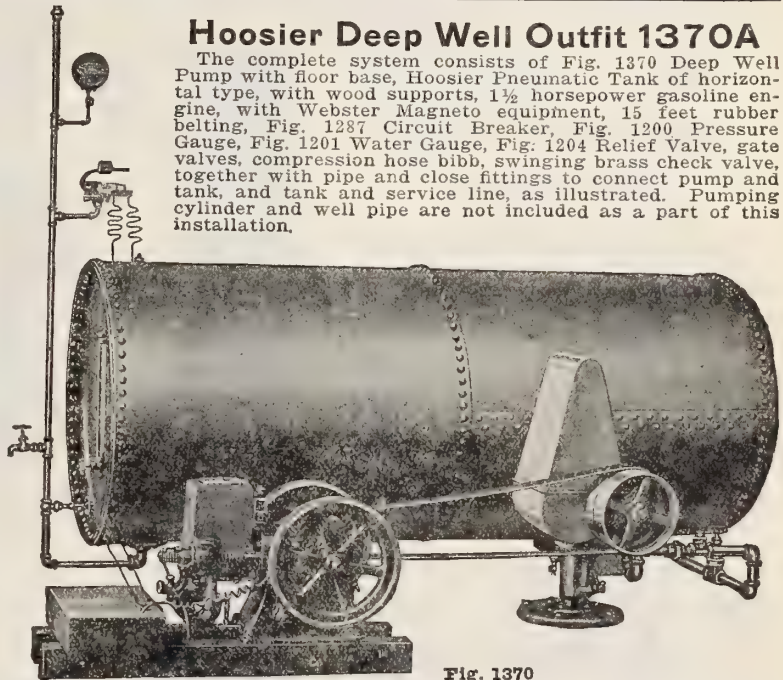


Fig. 1370

Hoosier Shallow Well Outfit 1325A—With Fig. 1325 Pump

Fig.	Description	Capacity of Tank, Gallons	Weight	Price
1325-E	Complete Hoosier System, as above described, with 30-inch by 8-foot Hoosier Pneumatic Tank....	295	1125	\$253.75
1326-E	With ½ H. P. Motor....	295	1030	273.00
1370-E	Complete Hoosier System, as above described, with 30-inch by 8-foot Hoosier Pneumatic Tank....	295	1150	\$262.50

Arrow Pneumatic Tanks



LIST OF PNEUMATIC TANKS. (Plain Tanks Without Fittings.)

Diameter in inches	Length in feet	Wt.	Capacity in gallons	Price Galvanized	Price Black
*24	5	260	120	\$ 52.25	\$ 34.50
*30	6	600	220	92.25	56.25
30	10	850	365	132.00	80.30
*36	6	750	315	114.25	68.75
36	10	1075	525	161.00	97.50

BALTIMORE TANKS

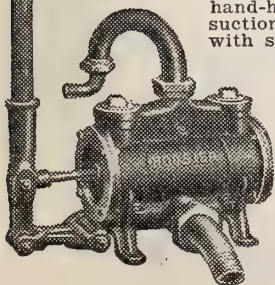
Diameter in inches	Length in feet	Capacity in gallons	Price Galvanized	Price Black
*24	5	120	\$ 47.00	\$ 33.00
*30	6	220	76.00	50.00
30	10	365	109.50	70.50
*36	6	315	97.00	62.50
36	10	525	134.50	86.00

Tanks marked * thus are vertical.

33-Gallon Galvanized Tank.....	\$18.20
66-Gallon Galvanized Tank.....	26.60
100-Gallon Galvanized Tank.....	36.00

ACCESSORIES FOR PNEUMATIC TANK

	Our Price.
Water Gauge.....	\$5.50
Pressure Gauge.....	4.50



Artesian Well
Cylinder No. 445

Brass Lined Artesian Well Cylinders

A galvanized steel cased brass lined artesian well cylinder for deep wells. It can be used inside of cased or open wells.

It is fitted with bronze ball tubular well valves.

The check valve is seated on a shoulder in a special coupling at the lower end of cylinder. The plunger and lower valve can be inserted or removed through the connecting pipe, which is larger in diameter than the bore of the cylinder.

2-in. Diameter, 16-in. Stroke, 26-in. Length of Cylinder, Plunger fitted for $\frac{3}{8}$ -in. pipe thread \$12.00

2½-in. Diameter, 16-in. Stroke, 26-in. Length of Cylinder, Plunger fitted for $\frac{3}{8}$ -in. pipe thread 19.75

3-in. Diameter, 16-in. Stroke, 28-in. Length of Cylinder, Plunger fitted for $\frac{1}{2}$ -in. pipe thread 26.25

No. 9171—Deep Well Brass Cylinder 1½ for 1-in. pipe to be used in connection with 1355 and similar outfits. 6-in. Stroke, \$5.50.



Improved Bestway Well Cleaner



It makes this very important job easy. Designed to operate by one person from platform.

Made very strong and durable; will last indefinitely; the price is so small and the results so effective that several jobs

will more than pay for it.

Keep your water pure and healthful; clean the well often with a Bestway. \$15.00

GALVANIZED PIPE FITTINGS.

	$\frac{1}{2}$	$\frac{3}{4}$	1	1½	2
Elbows .....	.12	.20	.22	.36	.44
Tees .....	.17	.26	.28	.52	.64
Street Elbows .....	.12	.18	.22	.32	.44
45-Degree Elbows .....	.12	.18	.20	.30	.40
Cross .....	.20	.32	.33	.56	.70
Bushings .....	.10	.10	.12	.13	.15
Lock Nuts .....	.05	.05	.06	.10	.12
Caps .....	.06	.10	.12	.20	.28
Reducers .....	.10	.13	.14	.20	.30
Couplings .....	.10	.14	.16	.28	.34
Galv. Unions .....	.36	.42	.52	.74	.94

GALVANIZED NIPPLES.

$\frac{1}{2}$ x1 or 1½	\$0.06
$\frac{1}{2}$ x2, 2½, 3, 3½ .....	.10
$\frac{3}{4}$ x1½ or 2 .....	.10
$\frac{3}{4}$ x2½, 3, 3½, 4 .....	.12
1x1½ or 2 .....	.12
1x2½, 3, 3½, 4 .....	.15
1½x1½ or 2 .....	.15
1½x3, 3½, 4, 4½ .....	.20
1½x1½ or 2 .....	.20
1½x3, 3½, 4, 4½ .....	.25

GOULD'S UNIVERSAL HOUSE FORCE PUMP



Fig. 1726

No. 2, Fig. 1725—With Plain Spout.....\$7.50
No. 2, Fig. 1726—With Cock Spout..... 9.50



Fig. 1725

The Universal House Force Pump is an easy working, compact and substantial pump. It is well adapted to house pumping, furnishing water either at the spout or through opening to storage tank. Can be used outdoors over wells and cisterns. Pump should not be placed over 22 feet above the water. Has 2½-inch cylinder and 4-inch stroke. Tapped for 1¼-inch pipe.

BRASS VALVES



FIG. 100

	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	1 in.	1½ in.	1½ in.
Globe and Angle Valves.....	\$1.35	\$1.65	\$2.40	\$3.35	\$4.65
Gate Valves.....	1.60	1.95	2.60	3.50	4.75
Swing Check Valves.....	1.50	1.70	2.10	2.75	3.60
Lever Handle Stop.....	.90	1.65	2.50	.....	.....
Stop and Waste.....	1.00	1.70	2.60	.....	.....
Compression Bibbs.....	.70	1.50	2.65	.....	.....
" Hose Bibbs.....	1.15	1.95	2.85	.....	.....
Galv. Foot Valves.....	.....	.....	.....	1.25	.....
Iron Body Foot Valves.....	.....	.....	.....	1.75	.....

Additional for Fitting Pumps

We give below a table of the additional charge for fitting, and the amount stated in table has to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer for valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

Prices Subject To Change Without Notice	With 1½-in. Pipe for 2½-in. and 3-in. Cylinder Pumps.	With 2-in. Pipe for 4-in. Cylinder Pumps.	With 2-in. Pipe fitted with 1½-in. Wood Rod.	We Use an Extra Good Foot Valve Depth of Well.	With 1½-in. Pipe for 2½-in. and 3-in. Cylinder Pumps.	With 2-in. Pipe for 4-in. Cylinder Pumps.	With 2-in. Pipe fitted with 1½-in. Wood Rod.
Depth of Well,							
10 feet.....	\$3.55	\$5.45	.....	32 feet.....	\$9.50	\$14.30	\$18.50
12 feet.....	4.00	6.10	.....	34 feet.....	10.00	15.10	19.60
14 feet.....	4.40	6.85	.....	36 feet.....	10.60	15.95	20.75
16 feet.....	4.85	7.55	.....	38 feet.....	11.10	17.55	22.65
18 feet.....	5.30	8.25	.....	40 feet.....	11.70	18.30	23.70
20 feet.....	5.75	9.00	.....	42 feet.....	12.25	19.20	24.80
22 feet.....	6.20	9.65	.....	44 feet.....	12.75	20.00	26.00
24 feet.....	7.30	11.00	\$14.00	46 feet.....	13.30	20.80	27.10
26 feet.....	7.80	11.85	15.15	48 feet.....	13.85	21.65	28.25
28 feet.....	8.36	12.65	16.25	50 feet.....	14.40	22.40	29.30
30 feet.....	8.90	13.50	17.40	Each additional ft..	.27	.40	.....

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

HOOSIER PUMPS



Fig. 7904



Fig. 7994



Fig. 8113



Fig. 8553

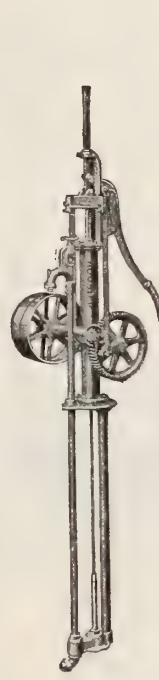


Fig. 1050

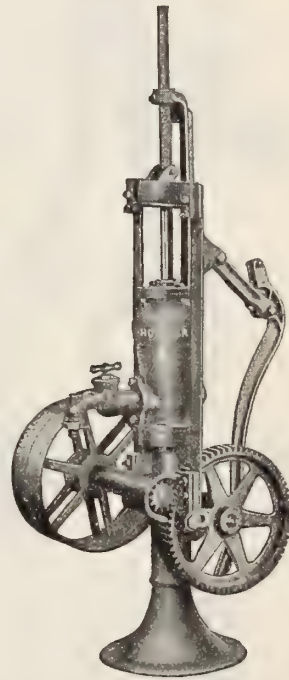


Fig. 1038

Fig. 7904.—Hoosier Open Top Hand Lift Pump, with wrought set length. It has large cast head, swivel bearer top, long handle and adjustable. The Standard or Barrel is made of $1\frac{1}{2}$ inch pipe, and has the anti-freezing feature. 3-inch iron cylinder. **Price, \$9.25.**

Fig. 7994.—Hoosier Hand Force Pump, wrought set length, anti-freezing, has swivel bearer top, polished steel piston rod, brass stuffing box, compression cock spout and back inlet. Standard is tapped for pipe just below spout, and with the usual drip hole directly above cylinder makes the pump anti-freezing. Fitted with 3 inch brass lined cylinder. **Price, \$15.25.**

Fig. 8113.—Hoosier Windmill Force Pump, wrought set length, anti-freezing; has detachable polished piston rod, brass stuffing box, swivel bearer top, back outlet and detachable compression cock spout. The bearer top has removable guide bushing to prevent pump rod wearing directly on bearer guide. $2\frac{1}{2}$ inch Brass Lined Cylinder, 6 inch stroke, weighs 81 pounds. **Price, \$17.25.**

Fig. 8553.—Hoosier Windmill Underground Force Pump, double acting, with wrought set length, anti-freezing. The pump has brass upper cylinder, positive three-way cock with union connection. Has adjustable platform base, fitted with 1 inch goose neck spout, and 1 inch three-way discharge. By removing upper cylinder and cap, the plunger valve can be withdrawn without disturbing the pump. Suitable for well from 25 to 125 feet in depth. Without Cylinder, **Price, \$16.75.**

Fig. 1050.—Hoosier Combination Set Length Pump and Jack. For hand, windmill or belt power. For shallow or deep wells. In this pump you get a true alignment of the jack and pump, with no side strain or uneven wear on the parts. Has cast gears and strong pitmans. Tight and loose pulleys. By removing upper cylinder and cap the plunger valve can be withdrawn without disturbing the pump. Can be used with $1\frac{1}{4}$, $1\frac{1}{2}$, 2, $2\frac{1}{2}$ or 3-inch pipe. **Price, \$46.75.**

Fig. 1038.—Hoosier Combination Pump Standard and Jack. Back geared 5 to 1, is designed to be operated by hand, windmill or belt power, for shallow or deep wells. This combined pump and jack is compact, strong and easy to install. Built in two sections, between which is a detachable flange, the upper section being the large air chamber with flanged top to which is bolted the flange bearer, making a firm connection; the lower section or barrel and main frame of the jack are of one-piece construction. This gives a true and permanent alignment of the jack and pump. Equipped with cast gears. The pinion shaft is extra long. Pitmans are made of heavy angle steel. The pitmans, gears, pinions and all wearing parts have No-Oil-Em Bearings. Has tight and loose pulleys. Adjustable stroke, 6 to 10 inches. One piece 11-16 inch piston rod, brass covered; brass stuffing box; compression cock spout with hose connection and back outlet. The jack has sufficient clearance above floor to admit of pulley being used as large as 30 inches. Suitable for wells from 25 to 200 feet. Weighs 190 pounds. **Price, \$37.00.**

Fig. 8584.—Hoosier Easy-Fix Windmill Force Pump. Single Acting, with detachable cast standard, for heavy service. Has positive Three Way discharge and brass hand wheel screw for regulating the three way distributing valve. Underground discharge elbow as union connection, Brass Stuffing Box and Brass Covered Piston Rod, fitted with $1\frac{1}{2}$ inch pipe air barrel.

The stuffing box is set in extra cap or flange which screws into the bottom casting. By removing stuffing box cap the plunger may be withdrawn without disconnecting the pump. Bearer is provided with removable pump rod guide bushing to prevent wear directly on the bearer guide.

The bottom flange is interchangeable for the size cylinder or pipe to be used. Price of pump without cylinder, **\$21.75.**

Artesian Well Cylinders—See Page 206.

CLOSED TOP PITCHER SPOUT PUMP

SIZES AND PRICES.

No. 2—Diameter of Cylinder, 3 in.; Suction, 1½ in. Polished Iron Cylinder. Retail, \$2.25.

No. 3—Diameter of Cylinder, 3½ in.; Suction, 1½ in. Polished Iron Cylinder. Retail, \$2.50.

For 1½-in. Couplings add 15c.

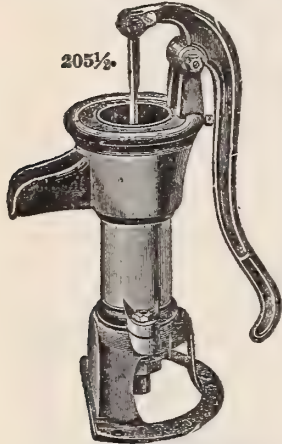
PITCHER PUMP LEATHERS.

No. 2—Valve and flat Plunger Leathers, each, 16c.

No. 3—Valve and flat Plunger Leathers, each, 20c.

No. 2—3-inch Leather Cups, 19c.

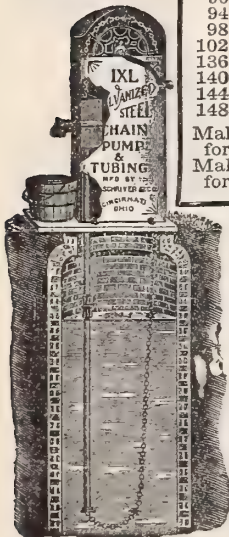
No. 3—3½-inch Leather Cups, 25c.



BRASS JACKET DRIVE WELL POINTS

No.	Diameter of Pipe.	Length.	No. 60 Gauge, List Price, Per Doz.	Retail Price Each.
90	1¼	24 in.	\$36.00	\$1.70
94	1¼	30 in.	46.00	2.15
98	1¼	36 in.	56.00	2.60
102	1¼	48 in.	76.00	3.55
136	1½	24 in.	48.00	2.25
140	1½	30 in.	60.00	2.80
144	1½	36 in.	72.00	3.35
148	1½	48 in.	96.00	4.45

Malleable Drive Caps, Hexagon-shaped, for 1¼-inch Pipe.....55c.
Malleable Drive Caps, Hexagon-shaped, for 1½-inch Pipe.....55c.



I X L CURB.

I X L GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb.....	\$ 6.50
Gem Curb.....	5.50
Tubing, per foot.....	.15
Coupling.....	.50
Rubber Buckets.....	.10
Iron Platform.....	9.00
Chain, per lb.....	.12

DIRECTIONS FOR FITTING UP CHAIN PUMPS

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held secure—by tubing brace at bottom of curb.



GEM CURB.

No. 30 STAR WATER ELEVATOR AND PURIFIER

Similar to the No. 2 Water Elevator, except that the buckets are slightly smaller, and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, it is considered by some better for deep wells.

Price—Elevator and 25-foot chain and jappanned bottom wheel for 10-foot cistern, \$13.50. Extra chain, per foot, 25c.

E. Z. BUCKET PUMP OR WATER ELEVATOR

The strongest bucket pump built. It is made of the best No. 24 galvanized steel, painted two coats best gray paint, and varnished. It has roller bearings, and they make the pump work easier, wear longer and run practically noiseless.

It has steel top and bottom bands. The buckets are made from the best galvanized steel, roll locked seams throughout. Fixtures are put on the pump complete, avoiding all trouble in fitting.

Price—Elevator, with 25-foot chain and galvanized bottom wheel for 10-foot cistern.....\$13.50

I X L Rubber Bucket.

The Queen Rubber Bucket.

Victor Anti-Freezing.

Crosby Swivel Link Bucket, 12c.



Price, 10c.



Price, 10c.



Price, 10c.



Crosby Plain, 10c.

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.



Plunger Leather Crimped.



Suction Valve Leather.

CRIMPED PLUNGER OR CUP LEATHERS

	Each		Each		Each
1 inch.....	\$0.08	2½ inch.....	\$0.15	4 inch.....	\$0.35
1¼ inch.....	.08	2¾ inch.....	.18	4¼ inch.....	.38
1½ inch.....	.10	3 inch.....	.19	4½ inch.....	.40
1¾ inch.....	.10	3¼ inch.....	.22	4¾ inch.....	.45
2 inch.....	.11	3½ inch.....	.25	5 inch.....	.50
2¼ inch.....	.12	3¾ inch.....	.31		

PLUNGER AND LOWER VALVE LEATHERS AND RING PACKING

Outside Diam.	Cylinder Diam.	Each	Outside Diam.	Cylinder Diam.	Each
2 inch	1½ inch	\$0.10	3½ inch	3 inch	\$0.16
2¼ inch	1¾ inch	.10	3¾ inch	3¼ inch	.17
2½ inch	2 inch	.11	4 inch	3½ inch	.20
2¾ inch	2¼ inch	.12	4½ inch	3¾ inch	.25
3 inch	2½ inch	.13	5 inch	4 inch	.30
3¼ inch	2¾ inch	.15			

PUMP CYLINDERS

	Iron Our Price.	Brass Lined. Our Price.	Brass. Our Price.
2½x12.....	\$ 4.90	\$ 5.55
2½x16.....	5.65	6.30
3x10.....	\$2.25	.....	.....
3x12.....	5.30	6.25
3x16.....	6.15	6.90
3½x10.....	3.00	.....	.....
3½x12.....	6.25	7.00
3½x16.....	7.35	9.50
4x12.....	8.50	10.00
4x16.....	9.75	11.25

2½ and 3-in. cylinders take 1¼-in. pipe; 3½-in. cylinders take 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

Baltimore Wood Pumps

PRICES OF PUMPS FITTED COMPLETE.
 With and Without Porcelain Cylinder.

Depth of Well.	6x6 Unlined.	6x6 Lined.	7x7 Lined
	Price.	Price.	Price.
10 feet.....	\$11.50	\$14.10	\$16.30
12 feet.....	12.10	14.70	16.95
14 feet.....	12.75	15.35	17.60
16 feet.....	14.30	15.95	18.20
18 feet.....	15.00	17.55	19.80
20 feet.....	15.60	18.15	20.40
23 feet.....		19.55	22.05
25 feet.....		20.45	23.20
28 feet.....		22.45	24.70
30 feet.....		23.95	27.45
33 feet.....		26.00	29.65
35 feet.....		29.00	32.90
40 feet.....		32.70	36.80
45 feet.....		37.00	41.40
50 feet.....		39.75	44.40

Baltimore Wood Pumps

NOT FITTED.

"No. 0."—STOCK PUMPS. 7x7 inches, 4-inch Bore.

	Porc. Lined.
	Price.
6 feet long.....	\$12.75
7 feet long.....	13.75
8 feet long.....	14.75
10 feet long.....	16.75
12 feet long, extension cylinder.....	17.25
6 feet long, reamed for 6x6 extension pipe, unlined.....	10.50

"No. 1"—The Favorite House Pumps

6x6 in., 3½-in. Bore.

Porc. Lined.

	Price.
6 feet long.....	\$10.50
7 feet long.....	11.25
8 feet long.....	12.00
10 feet long.....	14.00
12 feet long.....	15.50
6 feet long, reamed for 6x6 extension pipe, unlined.....	8.50

Pump For Drive Wells

To Fit 1¼, 1½-inch Iron Pipe.

Special No. 1 House, 5 feet wood, Porcelain-lined Cylinder, entire length 6 feet.

PRICE.....\$11.50

Tubing and Miscellaneous

	Retail Price.
4x4, 12 feet long and under, per foot.....	\$0.30
4x4, over 12 feet, per foot.....	.32
6x6 Extension Tubing, per foot.....	.75
Cylinder Block, Porcelain Lined, 3 feet long.....	4.40
Cylinder Block, Porcelain Lined, 4 feet long.....	5.20
Cylinder Block, Porcelain Lined, 5 feet long.....	6.00
Cylinder Block, Porcelain Lined, 6 feet long.....	6.50
Cylinder Block, Porcelain Lined, 7 feet long.....	7.60
Cylinder Block, Porcelain Lined, 8 feet long.....	8.40
6x6 Couplings for 4x4 Tubing.....	.90
Buckets, 5-in., each, No. 00, Price \$1.50; 4-in., each, No. 0.....	1.25
Buckets, 3½-in., No. 1, each, Price, \$1.00; 3-in., No. 2, each.....	.80
Handle, any size, each, Price, 40c.; Handle Links or Knuckles.....	.40
Check Valves, each.....	.14
Iron Connection for Drive Wells, fitted for 1¼-in. and 1½-in. iron pipe.....	1.50
Extra Iron Spout, with loose collar.....	.50
Extra Wood Spouts, each, Price 25c.; Extra Spout Braces, each.....	.40
Extra Bands, each.....	.12
Extra Bars or Brackets, Nos. 35 and 36, pair.....	.50
1-in. Rod Couplings, pair.....	.60
Plunger Rod, per foot.....	.05

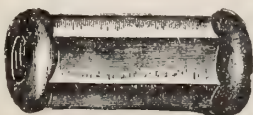
GALVANIZED PUMP RODS AND COUPLINGS

¾-inch Round Galvanized Pump Rod in 20-foot lengths, not threaded, per foot, 5c.

7-16 in., 6c.

Threaded with coupling, add 1c. per foot; cut lengths add 3c.

Galvanized Pump Rod Couplings for ¾ or 7-16 in. rod, 10c. each.



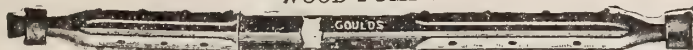
OCTAGON WOOD PUMP RODS.

Wood Pump Rod for artesian wells is made of selected material and fitted with galvanized forged couplings.

Size of Rod	Size of Artesian Well Cylinder	Price, Per Ft.
1½ in.	1½ in. to 2¼ in.	\$0.25

The above prices are for rod in standard lengths or from 16 to 20 feet, couplings included.

WOOD PUMP ROD.



HOOSIER PUMP JACK

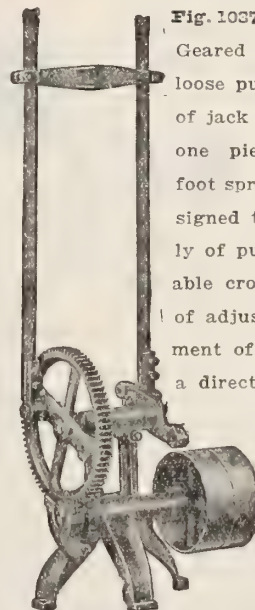


Fig. 1037.
Pump Jack

Fig. 1037—Hoosier Pump Jack.

Geared 6 to 1, with tight and loose pulley. The main frame of jack and tripod base are of one piece construction. The foot spread is extra wide. Designed to operate independently of pump standard. Adjustable cross head with wide range of adjustments. The arrangement of gear and pinion gives a direct even lift.

Weight 95 pounds

Price, \$18.35.

HOOSIER PUMP JACK

Fig. 1031.

Figure 1031—Hoosier Pump Jack, with tight and loose pulleys for gasoline engine or electric motor, with motor speed reduced. The drive shaft may be driven 200 R. P. M.; as a rule, however, we recommend 170 R. P. M., or about 34 strokes per minute.

The pitmans are made of hard wood, and with their wide range or adjustment the jack can be attached to a windmill-head pump without disturbing the pump or pipe connections.

This jack can be used on the wall, floor or ceiling.

Will operate a 3-inch cylinder, 125 foot lift on 8-inch stroke.

Price\$9.75



GRIFFITH & TURNER

Solid Steel Axle and
Thimble Skein, One
Horse

WAGONS

We carry the Solid
Steel and Thimble Skein
Wagons in stock.



Best Wagons on the Market
for the Money.

**1-HORSE
WAGON**

THIMBLE SKEIN ONE HORSE WAGON

Size Cast Skein	Reg. Tires	Height Front Ft. In.	Wheels Rear Ft. In.	Dimension of Body Leng. Wid. Dep. Ft. In. Ft. In. In.	Capacity	Wt.	Gear only no brake	Gear with brake	Wagon comp. with body	Wagon comp. with body & brake
2 3/8 x 7 1/2	1 1/4 x 3/8	3' 4"	3' 8"	7' 6" 3' 4" 15"	1200 lbs.	550 lbs.	\$54.00	\$59.60	\$73.60	\$82.00

STEEL AXLE ONE HORSE FARM WAGON

1 1/8 x 6 1/2	1 1/8 x 5/16	3' 4"	3' 8"	7' 6" 3' 4" 15"	1000 lbs.	550 lbs.	\$55.00	\$60.60	\$74.60	\$83.00
1 3/8 x 7 1/2	1 3/8 x 1/2	3' 4"	3' 8"	7' 6" 3' 4" 15"	1500 lbs.	735 lbs.	77.00	82.60	96.60	105.00

If one horse wagon is wanted with Pole instead of Shafts, add.....	\$6.20
Poles for one horse wagons.....	12.80
Bodies without seats, 7 ft. 6 in. long, 15 in. deep, No Seat	17.00
Wagon Seats.....	5.25
For 1 3/4 in. x 3/4 in. Tires on 1 1/2 in. Axle Wagon add.....	3.25
For 2 in. x 3/4 in. Tires on 1 1/2 in. Axle Wagon add.....	5.00
For 2 in. x 3/8 in. Tires on 2 3/8 Wood Axle Wagon, add	5.00

CLOSING OUT THESE WAGONS AT SPECIAL PRICES

We have in stock the below-named wagons. These wagons are priced subject to stock. They are all of well-known makes and are guaranteed.

Famous Brown Wagon Gears

No. 3—3 1/2 x 11, Linch Pin Steel Skein Gear with 4-inch tires, wheels 44x52 inches with Rear and Side Brake.....	\$110.00
No. 4—2 1/4 Solid Axle Gear with 3-inch tires, 44x52 wheels, Rear and Side Brake	100.00
No. 0—2 3/4 x 8 1/2 Cast Skein Gear, 3-inch tire, 40x44 wheels, Side Brake.....	90.00
No. 1—Farm Truck, Drop Tongue, 3x9 skein, 32x36-inch wheels, 4-inch tire.....	80.00
No. 1—Farm Truck, Drop Tongue, 3x9 skein, 32x36-inch wheels, 3-inch tire.....	78.00

Renowned Studebaker

2 1/2 x 8 Steel Skein Gear, no brake, 2-inch tire.....	90.00
2 1/2 x 8 Steel Skein Gear, no brake, 2 1/2-inch tire.....	95.00

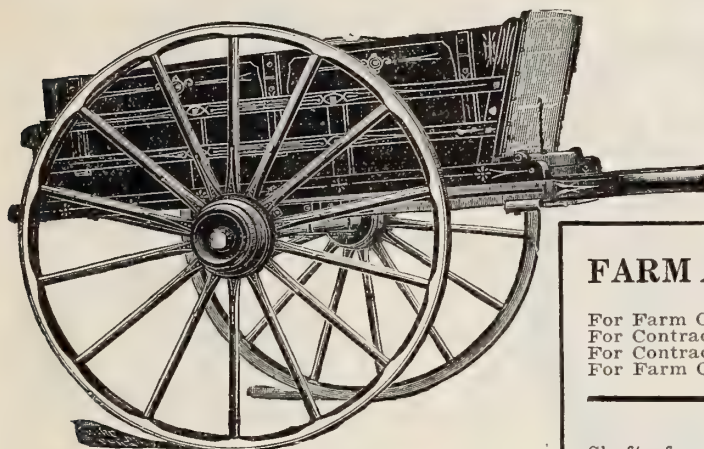
Well-Known G. and T. Wagon

No. 42—1 1/2 Solid Axle Gear, no brake, 2-inch tire	85.00
No. 1—2 3/4 x 8 1/2 Steel Skein Gear, no brake, 2-inch tire	85.00
10-foot Bodies, 16-8 sides (to fit above).....	29.00
Seats and Springs.....	6.00

FARM AND CONTRACTOR'S CARTS

With 5 and 6-inch Tires and extra Contractor's Carts made especially to order when wanted.

These Carts are very strong, heavily ironed, nicely painted, striped and varnished.



FARM CARTS

2 inch axle.	3 inch tire.	4 ft. 4 in. wheels.	Price.
2 inch axle.	4 inch tire.	4 ft. 4 in. wheels.	\$82.50
			86.75

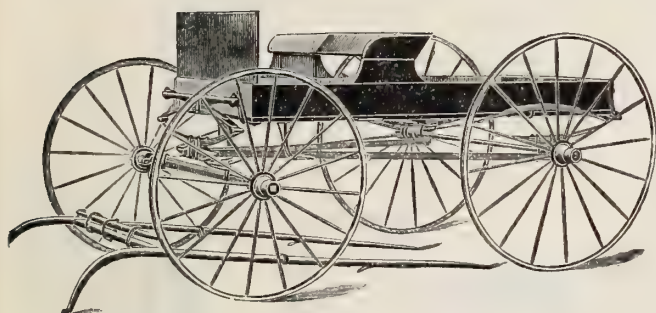
CONTRACTOR'S CARTS

2 inch axle.	3 inch tire.	4 ft. 6 in. wheels.	107.50
2 inch axle.	4 inch. tire.	4 ft. 6 in. wheels.	112.50

FARM AND CONTRACTOR'S CART WHEELS

For Farm Cart, 2-inch Rotary Axle, 4x½-inch tire.....	Price.
For Contractors' Carts, 2-inch Axle, 3x¾-inch tire.....	\$46.25
For Contractors' Carts, 2-inch Axle, 4x½-inch tire.....	48.00
For Farm Cart, 2-inch Rotary Axle, 3x½-inch tire.....	50.00
	41.25

	Price.
Shafts for 2-inch Axle Farm Cart, no irons, per pair.....	\$16.00
Shafts for 2-inch Axle Farm Cart, with irons.....	20.00
Axles for 2-inch Axle Farm Cart, Rotary.....	12.50
Axles for 2-inch Contractors' Cart.....	10.00
Bodies for Farm Cart.....	50.00
Bodies for Contractors' Cart.....	52.00



HANDY SPRING DELIVERY WAGON

Size Steel Axle	Tires	Height Wheels		Dimensions of Body				Wagon Complete	
		Front	Rear	L'gth	Wid	Dep.	In	No Brakes	Retail
1½	1½x5/16	3 0	3 6	7 1	3 2	9	658	1000	\$104.00
									Brake for above, Retail.....\$5.00

Patent Steel Skeins

Revised
Price List
**PATENT
STEEL
SKEINS.**



Skeins with Boxes, per Set.

No.	Size.	With Nuts. Price.	Boxes Only, per Set. Price.
2	2½ x 8"	\$15.70	\$2.75
3	2¾ x 8"	16.25	3.00
6	3 x 9"	17.60	3.50
9	3¼ x 10"	20.35	4.00
11	3½ x 11"	23.10	4.50
14	3¾ x 12"	27.50	5.00
15	4 x 12"	31.90	6.00
17	4½ x 13"	47.85	8.00

Nuts for all sizes up to 3½ inch..... .30

Nuts for 3½ inch and 4 inch..... .40

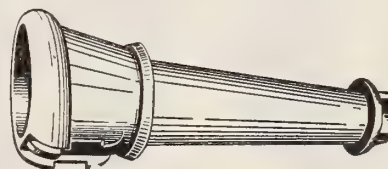
3½, 3¾ and 4 inch furnished also in Linch Pin.

Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

D. V. Trade Skeins for Steel Wheel Truck

	Skeins With Boxes. Set.	Boxes Only. Set.
3 x 9	\$9.00	\$3.50
3¼ x 10	11.00	4.00

Patent Truss Cast Skeins and Boxes For Studebaker Wagons



	Price.	Boxes Only.
Size 2½ x 8", with boxes, per set.....	\$8.00	\$2.75
Size 2¾ x 8", with boxes, per set.....	9.00	3.00
Size 3 x 9", with boxes, per set.....	10.00	3.50
Size 3¼ x 10", with boxes, per set.....	12.00	4.00
Size 3½ x 11", with boxes, per set.....	14.00	4.50

Cast and Steel Skeins for Brown Wagons

	Each.
3" Cast Skeins, pat. extension for bolt or clip, no box..	\$2.40
3¼" Cast Skeins, pat. extension for bolt or clip, no box..	2.75
2¾" Cast Skeins, pat. extension for bolt or clip, no box..	3.00
3½" Steel Skeins, long sleeve, no box.....	6.50
3¾" Steel Skeins, long sleeve, no box.....	7.65
4" Steel Skeins, long sleeve, no box.....	9.00

METAL TRUCK WHEELS

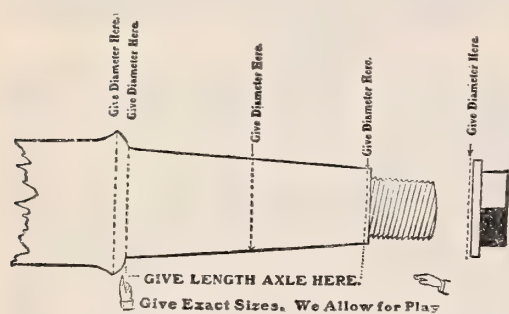


Diagram Showing How To Measure Your Skeins.

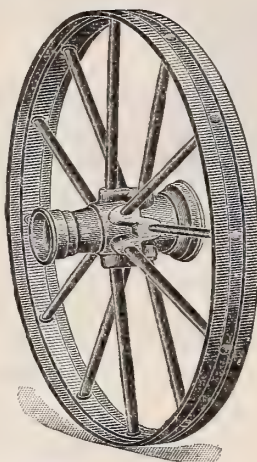
As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

PRICES PER WHEEL WITH 4x $\frac{1}{2}$ TIRES.

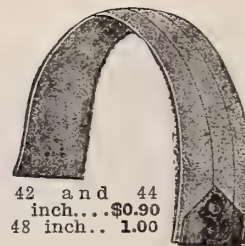
24-inch.....	\$6.60
26-inch.....	6.90
28-inch.....	7.30
30-inch.....	7.70
32-inch.....	8.40
34-inch.....	8.80
36-inch.....	9.50

We carry wheels in stock, sizes 3x9 and 3 $\frac{1}{4}$ x10. All other sizes will have to be ordered from the factory according to measurements sent. If measured wrong, we will not take the wheels back.

For 4x $\frac{1}{2}$ Tire, prices on application. Wood Wheels, prices on application. Prices on other sizes quoted on application.



FOLDED DUCK BACK BANDS



WEB BACK BANDS

	Less Hooks
No. 1—3 $\frac{1}{2}$ -in., 42-in. long.....	\$0.40
No. 1—4 -in., 42-in. long.....	.45
No. 2—3 $\frac{1}{2}$ -in., 42 in. long.....	.35
No. 2—4 -in., 42-in. long.....	.40

BACK BAND HOOKS

3 $\frac{1}{2}$ -in.....	\$0.25
4 -in.....	.30

HAME STRINGS. Black.

$\frac{5}{8}$ x42-in. slit, each.....	\$0.20
$\frac{3}{4}$ x42-in. slit, each.....	.25

Rawhide.

$\frac{5}{8}$ x42-in. slit, each.....	\$0.20
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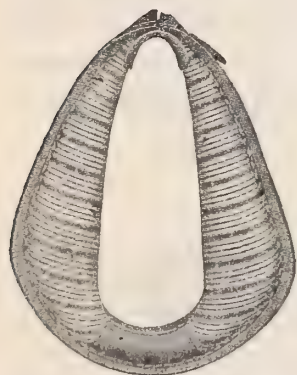
HAME STRAPS

1 -inch riveted.....	\$0.25
1 $\frac{1}{2}$ -inch riveted and sewed.....	.30
1 $\frac{1}{4}$ -inch riveted and sewed.....	.35

BOSS BACK BAND HOOKS

Per pair, 3 $\frac{1}{2}$ -inch.....	\$0.25
Per pair, 4 -inch.....	.30

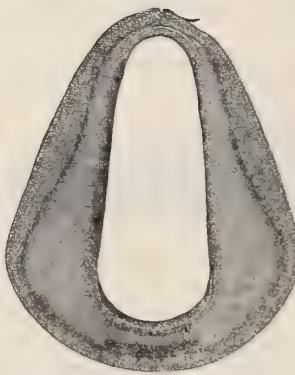
HORSE COLLARS



17-inch Draft. Split back and rim, \$4.50 each.
17-inch Draft. Kip back and rim, \$5.50 each.



Irish—19-inch Draft, \$6.75 each.
Irish—20-inch Draft, Hair-faced by hand, \$8.90 each.



Half Sweeney, Full Kip, black-faced, \$7.25 each.
18-inch Draft. Straight, Full Kip, russet face, \$6.50.

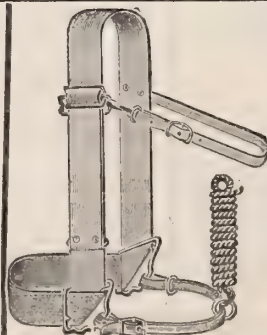
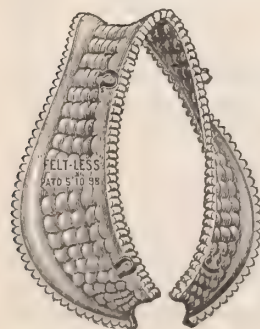
Sweat Pads

FELTLESS

Pinked, Felt Edges, Composite Filling, Four Hooks.

Old Gold Drill; best on the market.

18 to 20-in.....	\$.50
21 to 22-in.....	.55
23 to 24-in.....	.60



Adjustable Web Halters, No. 1

Continuous piece, solid color. No. 1 extra quality web, folded through metal corners, adjustable buckle. Leather chin-piece with buckle. Rope lead, leather latch, snap.

Our Special Price, 75c. each.

No. 2—WEBB HALTERS. Price.....60c.



No. 40—1 $\frac{1}{4}$ -inch Hrg. leather, \$2.00 each.

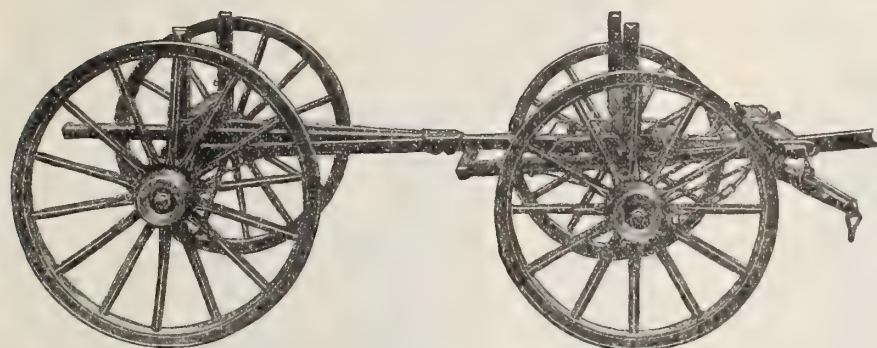
No. 21—1 $\frac{1}{4}$ -inch Double stitched, \$2.25 each.

No. 90— $\frac{7}{8}$ -inch Colt Halter, \$1.75 each.

Leather Cow Halters

Our Special Price, \$2.00 each.

THORNHILL FARM TRUCK



A good truck, very strong, suitable for either farm or road work. 2-inch solid steel square axles, wood wheels 36-inch rear and 32-inch front, with 3x $\frac{1}{2}$ inch tires. It is made in both drop and slip tongue. Top or swing side and tall brakes furnished when ordered.

Equipped regularly with Club Bolster stakes, but can be furnished with stationary stakes. Prices includes single and double trees, and chains for stiff tongue, and neck yoke for drop tongue wagon.

Be sure to state just what you want when ordering.

PRICES

Farm Truck, with Drop Tongue..\$82.00
Farm Truck, with Slip Tongue.. 84.00

For any of the following extras, add to the above wagon prices.

10-foot Body, with 16' 3" sides.....	\$29.00
Body Brake Attachments.....	3.00
36-inch Front and 40-inch Rear Wheels.....	3.00
40-inch Front and 44-inch Rear Wheels.....	3.50
3x $\frac{1}{2}$ inch Tires.....	4.75
4x $\frac{1}{2}$ inch Tires.....	6.00

Seat and Springs.....	\$6.00
Jersey Double and Singletrees.....	1.75
Side Brake.....	9.00
Tail Brakes.....	14.00
Both Brakes when Ordered at Same Time.....	20.00
Stationary Bolster Stakes.....	3.00

OUR HANDY STEEL WHEEL FARM TRUCKS

All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. No. 24 with 3 $\frac{1}{4}$ x10 skeins, capacity 4,000 lbs.

Trucks have 28-inch front and 30-inch rear wheels, 4x $\frac{1}{2}$ tires.

Weights — No. 24, 510 lbs.

No. 24 Truck—

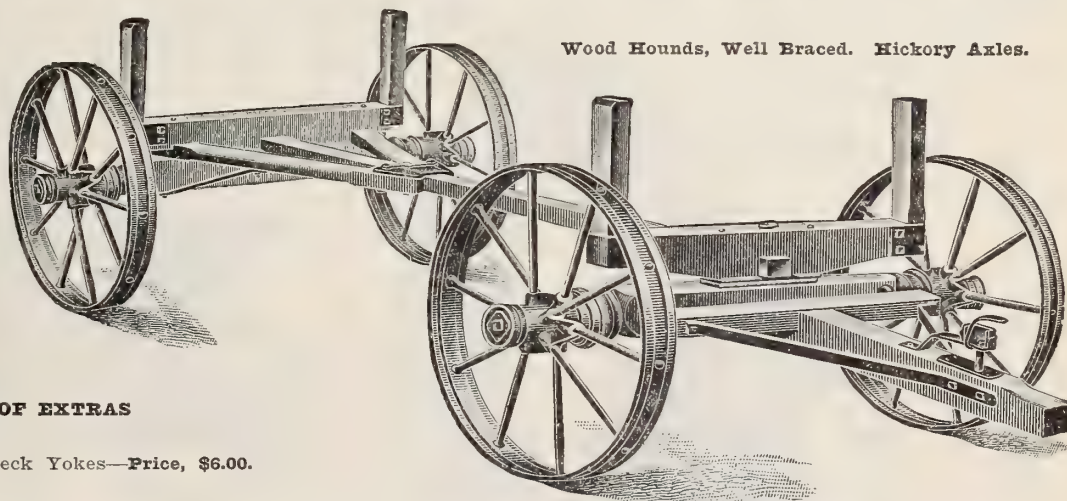
\$52.50

PRICES OF EXTRAS

Brake—Price, \$7.75.

Double Trees and Neck Yokes—Price, \$6.00.

Shafts—Price, \$9.00.



Wood Hounds, Well Braced. Hickory Axles.

HARVEY XXX BOLSTER SPRINGS

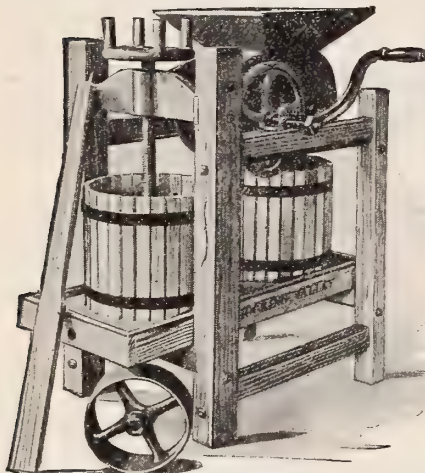


These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years' experience back of every **Harvey Bolster Spring**. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.

Capacity	42 inch	Capacity	42-inch
1500.....	\$12.50	5000.....	\$24.00
2500.....	15.75	6000.....	27.00
3000.....	18.25	8000.....	31.00
4000.....	21.50	10000.....	35.00

CIDER MILLS AND PRESSES

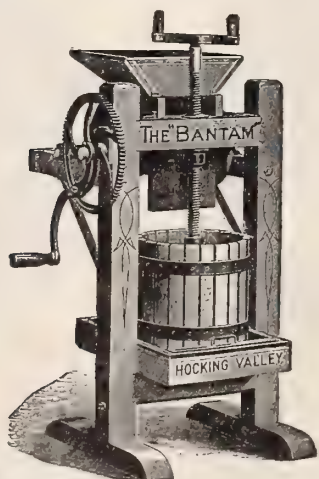
HOCKING VALLEY DOUBLE CAGE MILL



Best and strongest built. Adjustable for all sizes of apples. All have hinged tubs.

Junior—Capacity 2 to 4 barrels per day.....\$30.00
Medium—Capacity 4 to 6 barrels per day..... 34.00
Senior—Capacity 6 to 8 barrels per day..... 50.00

HOCKING VALLEY BANTAM CIDER MILL



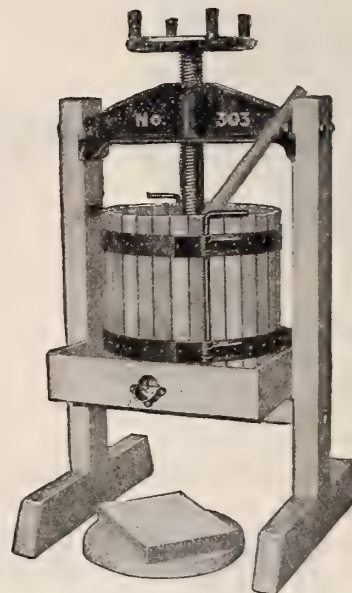
This single cage mill is strongly built throughout. Will grind 1 to 2 barrels per day.

Price, with hinged tub.....\$22.00

LIGHT BERRY PRESSES

No. 1 W.....\$9.50
 No. 2 W..... 11.00
 No. 3 W..... 13.00

FAMOUS LINE OF OASIS PRESSES

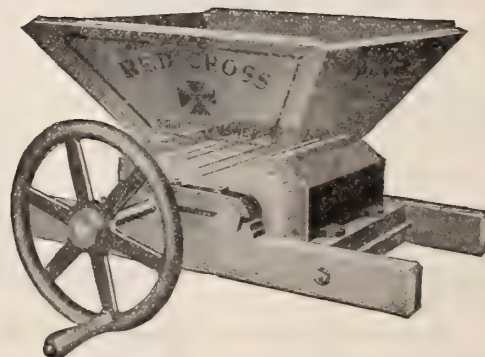


Guaranteed to be entirely satisfactory in execution, ease of operation, durability and finish. Made in 4 sizes.

No.	Size of Tub	Capacity	Price
No. 101	11 1/2 x 11 1/4	1/2 bu.	\$10.00
No. 202	14 1/4 x 12 1/4	3/4 bu.	13.00
No. 303	17 1/4 x 15 1/2	1 1/2 bu.	23.00
No. 404	23 1/4 x 20	3 1/2 bu.	33.50

All Furnished with Hinged Tub.

GRAPE CRUSHER



No. 2 Hoosier Crusher.....\$9.00
 No. 20 Crusher.....\$11.75

WAGNER'S FRUIT AND LARD PRESS



	Our Price
2-Quart	\$5.00
4-Quart	6.75
6-Quart	7.50
8-Quart	8.35
Stuffing Attachment.....	1.50

CENTURY TIRES



Super Service



Ultra Service

Century Super Service and Ultra Service Balloons are specially built to fill the tire needs of modern cars. They provide the utmost in safety—an important factor in high-speed traffic. Then they say it with MILES, wearing slowly and uniformly even under conditions of severe service. The Century Super Service Balloon is a tire of outstanding appearance, is made of select materials under precision methods—a FINE tire in every sense of the word. Century Ultra Service Heavy-Duty 6-ply and 4-ply balloons are matchless values at their moderate prices. Many retailers sell them at chain store lists. All Century balloons are guaranteed under the all-embracing warranty which is printed in full at the foot of this page.

BALLOON CORDS AND INNER TUBES

SIZE	Ultra Service 4-Ply	Ultra Service Heavy Duty 6-Ply	Super Service Heavy Duty 6-Ply	Heavy Duty Red Tubes Each	Standard Grey Tubes Each
*4.40-21"—29x4.40..	\$5.65	\$8.25	\$11.20	\$1.65	\$1.45
4.50-20"—29x4.50..	6.40	8.35	11.60	1.70	1.45
*4.50-21"—30x4.50..	6.45	8.45	12.00	1.75	1.50
*4.75-19"—28x4.75..	7.65	9.65	12.40	1.80	1.55
4.75-20"—29x4.75..	7.75	9.95	12.30	1.85	1.60
4.75-21"—30x4.75..	8.10	....	....	....	1.65
*5.00-19"—29x5.00..	8.10	10.30	13.25	1.90	1.65
*5.00-20"—30x5.00..	8.30	10.60	13.60	1.95	1.70
5.00-21"—31x5.00..	8.60	....	....	....	1.75
*5.00-22"—32x5.00..	10.10	....	....	....	1.80
5.25-18"—28x5.25..	9.10	11.10	14.60	2.00	1.85
5.25-19"—29x5.25..	9.35	11.20	14.90	2.10	1.90
5.25-20"—30x5.25..	9.55	11.25	15.40	2.20	1.95
*5.25-21"—31x5.25..	9.90	11.90	15.95	2.25	2.00
5.50-18"—28x5.50..	10.05	12.55	15.85	2.40	2.15
5.50-19"—29x5.50..	10.10	12.65	16.45	2.45	2.25
5.50-20"—30x5.50..	10.35	12.85	17.40	2.55	2.35
6.00-18"—30x6.00..	11.50	12.90	17.50	2.45	2.25
*6.00-19"—31x6.00..	11.80	13.10	18.05	2.50	2.30
*6.00-20"—32x6.00..	12.20	13.20	18.40	2.60	2.35
*6.00-21"—33x6.00..	12.55	13.45	19.00	2.75	2.50
6.50-19"—31x6.50..	....	14.85	21.75	2.80	2.55
6.50-20"—32x6.50..	....	15.00	22.05	2.95	2.65
6.50-21"—33x6.50..	....	15.20	....	3.10	2.80

* Most Popular Sizes—Representing 85% of Balloon Cord Sales.

THE CENTURY WARRANTY

We guarantee every pneumatic tire bearing our name and serial number without limitation as to time or mileage. If any tire fails through defect to give you the service you have a right to expect, we will repair or replace it, charging only for the proportionate wear it has actually delivered.

THE CENTURY TIRE AND RUBBER COMPANY.

CENTURY TRUCK CORDS

These Century Tires are made extra large, extra heavy, and extra strong and adequately meet the requirements of commercial service. They have a specially designed tread to provide maximum traction under heavy load, to hold the road and counter skidding. Beads are double reinforced to insure firm and accurate seating on the rim. The tire walls are thickened to prevent rut cutting. Century Truck Cords today are standard equipment on many large commercial fleets. They hold this preference because they pay their way by cutting costs and lasting longer.



CENTURY TRUCK CORDS AND INNER TUBES

SIZE	Casings	Heavy Duty Grey Tubes Each
*30x5, 8-ply.....	\$25.55	\$3.20
*32x6 for 5-inch rims, 8-ply.....	32.40	5.05
*32x6, 10-ply.....	42.45	5.05

CENTURY BUS-TRUCK BALLOONS



These casings are low pressure tires for commercial vehicles. They ride easier, protect the car and the load, increase carrying capacity and reduce mileage cost. They are swifter, surer, stronger, safer. Century Bus-Truck Balloons combine truck tire endurance and balloon tire flexibility. They are extra large and extra strong with double cable beads. They are used either dual or singly—stand sustained speed, sudden starts and quick stops.

CENTURY BUS-TRUCK BALLOON CASINGS AND INNER TUBES

SIZE	Casings	Heavy Duty Grey Tubes Each
5.00-20"—32x6.00, 6-ply.....	\$20.25	\$2.60
7.50-20"—34x7.50, 8-ply.....	43.20	6.10
8.25-20"—36x8.25, 10-ply.....	59.90	8.10

CENTURY TRACTOR TREAD CORDS

These Century Casings are established favorites. They are extra size. Their tractor treads are sure and safe. Yet they sell at moderate prices.

TRACTOR TREAD CORD TIRES AND TUBES

SIZE	Tractor Tread 4-Ply	Standard Grey Tubes Each
*30x3½ Extra Size Clincher.....	\$5.10	\$1.15
31x4	8.95	1.50
32x4	9.60	1.60
32x4½	13.45	2.00
33x4½	13.85	2.10

* Most Popular Sizes—Representing 85% of Sales.



SPRINGFIELD PUMPS

A dependable single cylinder tire pump of large capacity and quick action, particularly recommended for inflation of Balloon Tires.

Carefully designed and skilfully made to meet exacting demands.

Attractive in appearance and especially constructed to withstand hard usage and abuse, and will last indefinitely.

Extreme ease of action permits inflation of tires quickly and with the least physical exertion.

Cylinder, 20 Gauge Steel Tubing. Full 7 inch Hard Wood Handle, Black Enameled. Polished Brass Handle Trimmings. Malleable Iron Base. 24 inch, 3-Ply, High Pressure Hose, Lock-on Connection. Knurled Brass Cylinder Cap, Polished. $\frac{3}{8}$ -inch Tempered Steel Plunger Rod. Specially and Chemically Treated Leather Plunger Valves, insuring High Compression and Indefinite Life.

Price\$2.00

PYRENE CHAINS FOR BALLOON TIRES—Standard Type

For Tires Marked	Use Chain No.	Price per Pair	Use Chain No.	Price per Pair
27x4.401002	\$4.50	30x5.00	7.00
28x4.40			31x5.00	
29x4.40			30x5.25	
30x3 $\frac{1}{2}$ C			31x5.25	
29x4.50 S1003	5.00	30x5.50	8.00
30x4.50			28x6.00	
28x4.75			29x6.00	
29x4.75			30x6.00	
30x4.751099 (Includes Old 1098)	5.50	30x6.20	8.50
29x4.95			31x6.00	
30x4.95			31x6.20	
31x4.95			30x6.50	
28x5.001082	6.75	31x6.50	8.50
28x5.25			32x6.00	
29x5.00			32x6.20	
29x5.25			32x6.50	
29x5.00			33x6.00	
29x5.25			33x6.20	
29x5.50			34x6.00	
			35x6.00	
			30x6.75	
			33x6.60	
			32x6.65	8.50
			32x6.75	
			33x6.75	
			30x5 S. P. Truck Chain	\$9.50
			32x6 S. P. Truck Chain	11.75

CLARK ALL-DAY HEAT UNITS

No Flame—No Smoke—No Odor

Guaranteed to Give More Heat Than Any Other Fuel for Portable Heaters

Clark Heat Units are over-size. Even when broken in half they last longer and give more heat than any others made. CLARK All-Day HEAT UNITS give out no flame, smoke or odor—just HEAT—12 to 16 hours of steady, dependable heat from each CLARK All-Day HEAT UNIT.

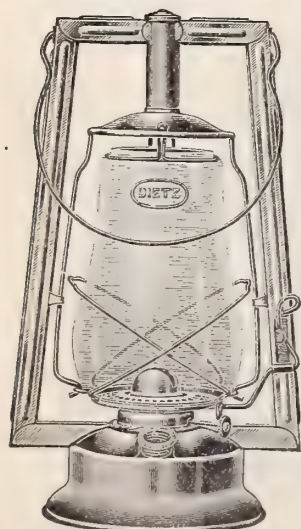
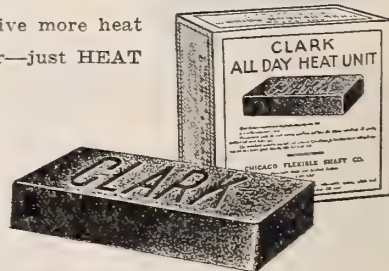
PRICES

Per Dozen in Shipping Carton. Shipping weight 6 $\frac{1}{2}$ pounds. **\$1.20.**

Per Gross—12 Cartons in wooden shipping case. Shipping weight 98 pounds. **\$14.40.**

Per 100—Packed in wooden case—no cartons. Shipping weight 65 pounds. F.O.B. Chicago. **\$9.50.**

Clark All-Day Heat Units are 2 $\frac{1}{2}$ inches wide by 1 $\frac{1}{2}$ inches thick by 7 inches long.



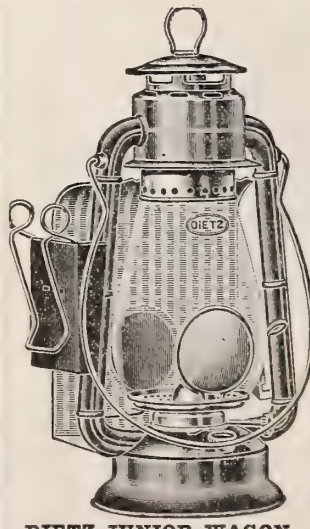
No. 0 DIETZ VICTOR.

"The "Victor" meets every requirement in situations where dependable lighting power is required. It gives the best light obtainable in a hot blast lantern with $\frac{5}{8}$ -inch wick. It has strong, beaded, square ribbed tubes and is a constant burner in any weather. Price, \$0.90.



No. 2 DIETZ BLIZZARD

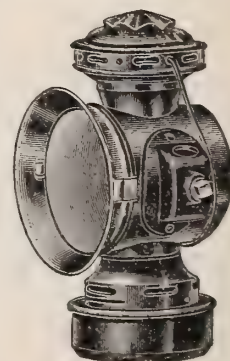
The No. 2 "Blizzard" signifies the best to be had in large lanterns of high globe, cold blast type. It has patented reinforced tubes, with a specially braced lift guide. Price, \$1.40.



DIETZ JUNIOR WAGON LANTERN.

Dietz "Junior" Wagon Lantern is much in demand because of its fine appearance, small size and cold blast light, which equals in power that of much larger lanterns of ordinary construction.

It has a law-abiding ruby rear lens and fits round or flat holders. Price, \$1.90.

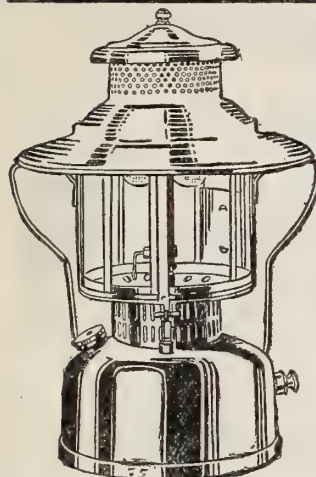


DIETZ EUREKA DRIVING LANTERN.

Dietz "Eureka" is a highly dependable small Driving Lantern, ideal for any light vehicle.

It is made of cold rolled steel, with positive locking oil fount and lawful ruby rear lens. The Eureka is also used as an automobile parking lamp to save battery current. Its handy bail makes it a very convenient portable light in case of mishaps on the road. Price, \$2.00.

AMERICAN READY-LITE LAMPS AND LANTERNS



American Ready-Lite lanterns have blue vitreous enameled tops which will not rust, corrode, tarnish or discolor. Mica frame or basket is rust proof cadmium plate. The fount is finished in blue lacquer to match the top. Brass bound and rust proof chimney of select clear mica.

The American Ready-Lite lanterns shown marks the greatest advancement which has ever been made in gasoline lighting appliances. New design, new beauty, new features, new conveniences, new safety, make them incomparably superior to any thing which has preceded them.

Open the valve—light the lantern just as you would light gas. Instantly—a flood of white, brilliant, pleasing light reaching every part of the room—and without generating.

The new American carburizing device mixes atomized gasoline and air in correct proportions to form a perfect gas for lighting the lamp. No generating, no preheating of any kind. You can't do it wrong because the regulating and cleaning valve automatically keeps the intake orifice clean and admits just the correct amount of fuel required for perfect lighting.

Automatic pressure release permits the pressure to escape and prevents flooding if the gasoline supply valve is opened and the lamp not lighted.

Built In Pump

All American Ready-Lite lamps and lanterns have hand operated filler plug and built in pump, making it easy to always maintain the best working pressure.

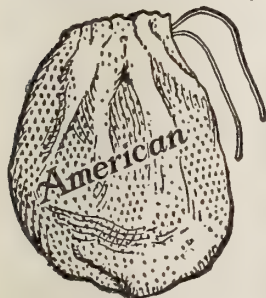
No. 287\$8.50
No. 288 Large Enamel Top 9.00

No. 8 WITH BUILT-IN OVEN

America's finest and most complete camp stove. Bakes, broils, roasts, toasts, boils, and fries—does everything you can do with a gas range. Equals city gas in cooking speed. Oven is also used as a tent heater, a warming closet and as a wind shield. Has two burners, 10x19 inch cooking top; two quart coppered tank, with built-in pump and funnel, holds six hours' fuel supply for both burners. Size of oven, 19x10x10 inches. Olive

drab baked enamel finish with black oven. Folds to 4 7/8 x 11 1/2 x 19 1/2 inches, weighs 21 lbs. Price\$11.00

AMERICAN MANTLES

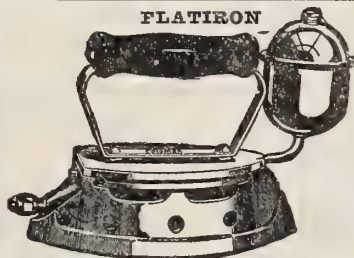


Made Strongest Where the Strain is Greatest
American Blue Top mantles are reinforced in such a manner that the mantle is strongest at the bottom where the strain is obviously greatest. That is why American mantles last longer. They are made by hand and will not split open or pull at the bottom like ordinary machine mantles.

While American mantles are made especially for American Ready-Lites, any gasoline lamp or lantern will give better service if American Blue Top mantles are used.

Price per dozen\$1.00

READY-LITE GENERATORS—Generators with Automatic Cleaner. Each, \$50.



FLATIRON

It is simple in design, highly polished ironing surface of 15 sq. in.

Double point makes it wrinkle proof. Fuel tank capacity, one-half pint. Two-part lid, separated by asbestos, keeps handle cool.

Price\$5.50



American Ready-Lite lamps are finished in hard, durable lacquer colors and equipped with shades of heat resisting Monax glass designed especially for American Ready-Lites.

Lamp No. 256 is forest green and jet black, a beautiful two tone effect. The shade is opal Monax glass.

No. 256 D35 is finished in statuary bronze and mahogany red with high lights producing a rich, dark metallic effect. The shade is opal Monax glass, tan tinted with green floral decorations.

No. 256 D36 is finished in Verd green and bronze and high-lighted producing a beautiful iridescent green and gold effect. The shade is opal Monax glass with green tint and floral designs.

Height 19 1/4 inches, diameter of fount 8 1/2 inches, capacity 3 pints.

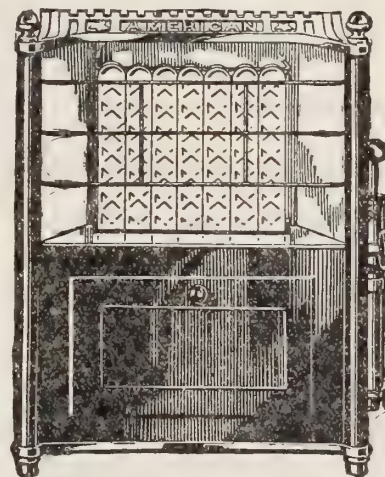
No. 256—Opal shade.....\$10.00

No. 256-D35—Tan and Green

No. 256-D35—Tan & green shade 11.00

No. 256-D36—Green tint and floral globe..... 11.00

AMERICAN INSTANT LIGHTER



Patents Applied For

The American Radiant Heater has the American Instant Lighter, a new American invention. It eliminates all former methods of generating including match lighters. Open the lighter valve and strike a match. The instant lighter starts immediately, focusing a blue, blow-torch flame on the main generator. After burning a few seconds the fuel supply valve is opened and the burners ignite—your American Heater is radiating is cheery, pleasing warmth to every part of the room. One of the highly important features of the Instant Lighter is the double protection against carbon deposits. Two automatic cleaners, one protecting the carbur-

etor intake orifice, the other the generator, insure perfect lighting every time.

The American Radiant Heater is pleasing in design. It is finished in durable black baked enamel with nickel plated base, top and trimmings and polished reflector. Height, 22 1/2 inches; depth, 11 1/4 inches; width, 19 1/2 inches. Weight, 43 lbs. Price.....\$34.50

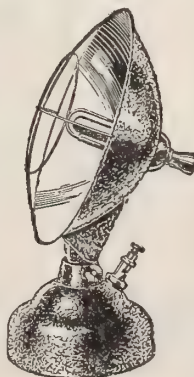
AMERICAN READYGLO

THE NEW PORTABLE GASOLINE GAS HEATER

In every climate and in every season of the year, there are times when physical comfort requires additional warmth. Cool mornings and evenings, damp, chilly days demand artificial heat. No heater so admirably meets this demand as does the American Readyglo—there is no other heater like it.

Well-built—Pleasing Design

The Readyglo is of pleasing design and attractive appearance. The fuel fount is drawn from heavy gauge, special alloy coated, rust resisting Armco iron. It has hand operated filler plug with built-in pump in single unit construction. The reflector is aluminum, polished on the inside. The heating element, a new development by American engineers, is a special, high heat resisting metal alloy. The Readyglo is beautifully finished in green and black crackle lac-



quer to harmonize with the color scheme and furnishings of any room. Price.....\$12.60

STEWART HORSE CLIPPING AND SHEEP SHEARING MACHINES

Low Price, Economical, Sturdy

New Stewart Stockman Electric Clipping and Shearing Machines

The new Stewart Stockman Electric Clipping Machine is powerful, smooth-running and vibrationless—an amazing value. A strong steady machine that will give years and years of satisfactory service. Operates from light plant or socket current.

The Stockman is equipped with a heavy duty $\frac{1}{4}$ H. P. electric motor. Tests made under the most exacting conditions reveal a generous reserve of power in this motor. The belt drive insures a constant, smooth flow of power.

When not in use for clipping or shearing, belt the Stockman motor to washing machine, separator, churn, pump or any other of the appliances of which they are so many on the modern farm.

USE EITHER AS HANGING OR PEDESTAL

The Stockman operates efficiently from both the hanging and pedestal position. To use in the hanging position, simply remove it from the pedestal and suspend from ceiling by the eye-bolts in the motor base. The Stockman is the very latest development in clipping and shearing machines, made and guaranteed by the world's largest makers of clipping and shearing machinery. It is offered at a remarkably low price and carries the Stewart Guarantee of Satisfaction or Money Back.

FOR CLIPPING OR SHEARING

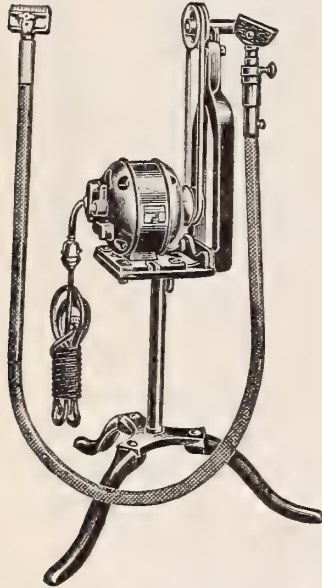
The Stockman can be had in a Clipping Machine at \$45.00 or a Shearing Machine at \$53.00. Clipping attachments can be had for the Shearing Machine or Shearing attachments for the Clipping Machine. Further information will be supplied on request.

Stewart Stockman Electric Clipping Machine, shipping wt.. 95 lbs.....\$45.00

Stewart Stockman Electric Shearing Machine, shipping wt.. 95 lbs..... 53.00

Important—Stockman prices given are for any cycle 110 volt a. c. current.

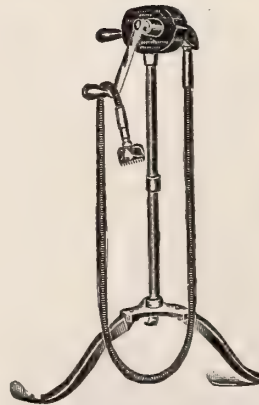
For special currents, write for prices.



The Stewart No. 9 Ball-Bearing Sheep Shearing Machine

A very strong and durable machine, shipped knocked down in compact case. Gears are all cut from solid tool steel, are hardened and are enclosed in dust-proof metal box. Has large balance wheel to assist in easy running. Every joint in the shaft and shearing head is fitted with ball-bearings, producing the most easy running and efficient shearing machine ever made. **This is the machine to buy. Fitted with No. 7 ball-bearing shear, two combs and four cutters. Wt., 50 pounds.**

Price,\$24.00



The Stewart No. 10 Ball-Bearing Horse Clipping Machine

Standard of the World.

A very rigid and very durable machine. Shipped knocked down in compact box, weighing, complete, 36 lbs. Anyone can set it up. Gears enclosed in dust-proof metal box are cut from special steel and hardened. Has six-foot, easy running, flexible shaft and famous Stewart clipping head.

Price, complete,.....\$15.00

STEWART No. 11 Improved Grinder Attachment



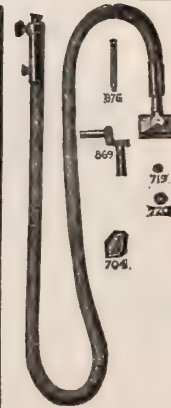
Attaches to a No. 1 Stewart Horse-Clipping Machine or Stewart No. 8 or No. 9 Sheep-Shearing Machine. Puts a perfect edge on horse-clipping or sheep-shearing knives. Every user of a horse-clipping or sheep-shearing machine should have one. **Price, \$6.75.**



Sheep-Shearing Attachment

For Use on Our No. 1 and No. 10 Clipper

This attachment consists of complete No. 5 Stewart Shear head, two combs and four cutters, the solid core, universal jointed shaft and cogs, as shown here. Weight, boxed, 15 lbs.. Price of complete attachment, as described, **\$16.00.**

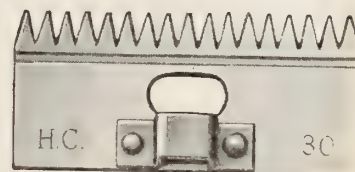
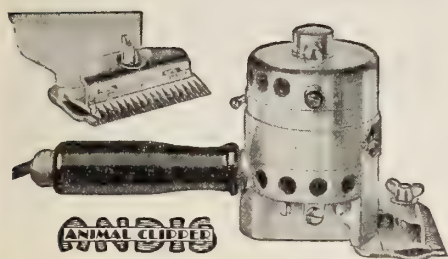


Horse Clipping Attachment

Will fit any Stewart Sheep-Shearing Machine.

Consists of eye spindle and six feet of high quality flexible shaft. Also the famous Stewart clipping head. Can be attached in a few seconds. Owners of a Stewart Sheep-Shearing Machine who have horses should have this attachment. Packed in box. **Price, \$10.50.**

ANDIS CLIPPERS AND BLADES



The ANDIS Animal Clipper is powered with a well-known Universal motor. Equipped with 20-foot three conductor rubber covered cord and ground clamp. Switch mounted on motor just above handle. Tension adjustment mounted directly over three inch cutting blades which run on roller bearings. Working parts enclosed in aluminum and metal housing. Clipper weighs complete 3 pounds.

No experience is necessary to operate the ANDIS. One man with an Andis can do more work than two men with a

hand operated clipper. The use of this machine will enable you to produce cleaner milk, keep your stock healthy and in a sanitary condition, and demand better prices on sale stock because of neater appearance.

One operator (it takes only one) can clip three cows complete in half an hour. Udders and hind quarters on 8 to 12 cows in one hour. This machine will pay for itself many times in one year and it operates from any light socket.

Andis Advantages

ANDIS Animal Clippers are speedy and quiet, will not pull or choke.

ANDIS Animal Clippers are furnished with a Universal motor for 110V AC or DC also Special motor for 32V light plants.

ANDIS Animal Clippers have no exposed parts. No cable or Stand (motor in handle).

ANDIS Animal Clippers are grounded to eliminate possibility of shock to operator or animal.

ANDIS Animal Clippers will clip hair on Cattle, Horses, Dogs, Hogs, etc. (Sheep not included.)

ANDIS Animal Clippers require only one operator and are easy to handle.

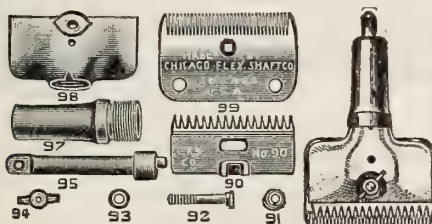
ANDIS ANIMAL CLIPPERS are manufactured by the ANDIS CLIPPER COMPANY who have been manufacturing high-grade electric and hand operated hair clippers and cutters for the past six years.

Price, complete, \$28.00

Upper Blade.....\$1.50
Lower Blade..... 2.00

Part of Handle and Knife Used on All Stewart

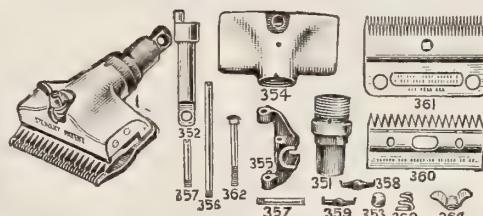
**Horse
Clipping
Machines
Before
Jan. 1st, 1915**



No.	Net Weight and List.
C-1 Stewart horse clipper handle and knife, complete	20 oz. \$4.50
C-2 Pair Stewart horse clipper blades, top and bottom	8 oz. 3.50
C-3 Horse clipper handle, complete, without knives	10 oz. 1.50
90 Top plate	3-oz. 1.50
91 Tension spring of handle	1-16 oz. .15
92 Tension bolt of handle	1-6 oz. .10
93 Eccentric roll of handle	1-15 oz. .15
94 Tension nut of handle	1-6 oz. .10
95 Pin and shaft of handle	2½ oz. .35
97 Shank of handle	3½ oz. .50
98 Front part of handle	4 oz. .60
99 Bottom plate of handle	5 oz. 2.00

Parts for Stewart Latest Model Cutting Head

FOR HORSE-CLIPPING MACHINES—Patented.



As supplied on all Stewart horse-clipping machines since January 1, 1915.

CAUTION!

Do not file or grind any part of the clipping head in any way. It is exactly right to cut best. The only grinding to be done

is to resharpen the cutting plates when they get dull, and that must be done right.

Be sure to let parts Nos. 358 and 359 alone. If they should be removed in any way, do not attempt to use the clipper head until they are properly replaced. Remove before grinding and replace after.

B-1 Clipper and Handle complete \$4.50. B-3 Handle only \$1.50.
B-2 Clipper Blades only \$3.50.

No.	Part.	Price, each	Weight	No.	Part.	Price, each	Weight
351	Taper sleeve	\$.50	2 oz.	358	Ball boss	.... .05	1-7 oz.
352	Drive pin	.... .35	2 oz.	359	Socket boss	.... .10	1-7 oz.
353	Drive ball	.... .15	1-16 oz.	360	Top plate	.... 1.50	2 oz.
354	Brace	.... .75	5 oz.	361	Bottom plate	.... 2.00	3 oz.
355	Cross head	.... .50	1 oz.	92	Tension bolt	.... .10	1-5 oz.
356	Cross head pin	.... .15	1-3 oz.	91	Tension spring	.... .15	1-16 oz.
357	Guide pins	.... .10	1-7 oz.	94	Tension nut	.... .10	1-7 oz.



TOILET AND FETLOCK CLIPPERS

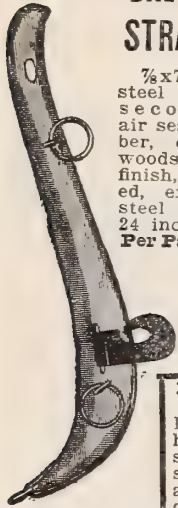
No. 671—Fetlock Clipper \$1.75
Khedive Clipper..... 1.50
Parcel post weight, 1 pound.

Horse or Dog Clippers



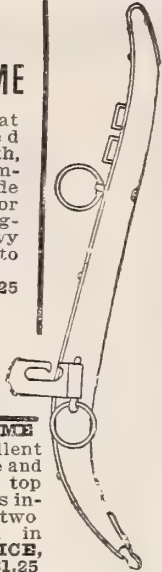
No. 169—Coates Ball-Bearing Horse Clipper.....\$3.50
Parcel post weight, 2 pounds.

BALTIMORE STRAP HAME



$\frac{7}{8}$ x 7/32-in. flat steel selected second growth, air seasoned timber, extra wide woods, superior finish, hand forged, extra heavy steel hook, 17 to 24 inches.
Per Pair....\$2.25

No. 1 HAME
An excellent light hame and has three top strap loops instead of two as shown in cut. **PRICE,** per pair, \$1.25



VIRGINIA CART NO. 61

Rock elm or ash wood. $\frac{1}{8}$ -inch stiff-bottom loops. $\frac{3}{4}$ x $\frac{1}{4}$ -in. steel backs. Three mortise to p loops. Heavy wrought steel hooks. Var-nished, polished irons. Size, 19- to 22-inch.

PRICE,

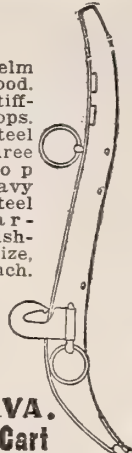
Per

Pair,

\$2.25

**VA.
Cart**

No. 61.



COW CHAINS

TRIUMPH CHAINS—Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Bulldog Cow Tie (Ohio pat.), each 30c.
4-0\$0.40
No. 3-0—4 $\frac{1}{2}$ -ft. Halter, each, 40c. 6-ft.45
No. 0—20-ft. Bulldog Tethering Chain, each... .60
No. 00—20-ft. Bulldog Tethering Chain, each... .70
No. 000—20-ft. Bulldog Tethering Chain, each... .30
No. 0—30-ft. Bulldog Tethering Chain, each... .80
No. 00—30-ft. Bulldog Tethering Chain, each... 1.00
No. 000—30-ft. Bulldog Tethering Chain, each... 1.10

OPEN SIDE LAP LINKS

Open Side Lap Links, polished, $\frac{1}{2}$ x $2\frac{1}{2}$ 10c.
 $\frac{5}{8}$ x 3 15c. $\frac{3}{4}$ x 3 25c



Chain Repair Links

Chain Repair Links, $\frac{1}{4}$ or 10-2, dozen\$0.20

9-32, or 10-1, dozen25

REGULAR IRON TRACE CHAINS.

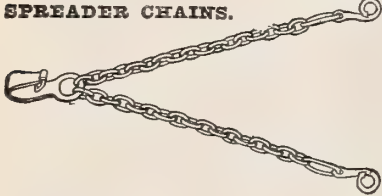
Retail Price.

7- 8-2\$1.00 pair

7-10-2 1.10 pair

7-12-2 1.30 pair

SPREADER CHAINS.



Straight Link Slack Spreader Chain, 11/32. **Our Special Price...**\$4.00
13/32. **Our Special Price...**\$5.00

$\frac{3}{8}$ Close Link Straight Spreader Chain for two horses, with three hooks each.

Our Special Price.....\$7.00

TUG CHAINS.

Cart Tug Chains, 18-10-1. **Our Special Price, 60c. per pair.**

BUTT CHAINS.

3 ft.—8-2, Per Pair.....**Retail \$1.00**
3 ft.—10-2, Per Pair..... 1.10

LOG CHAINS.

Long Link Log or Ox Chain, 5/16 in., 12 or 14 ft. **Retail Price, 16c. lb.**
Long Link Log or Ox Chain, $\frac{3}{8}$ in., 12 or 14 ft. **Retail Price, 15c. lb.**
Long Link Log or Ox Chain, $\frac{1}{2}$ in., 12 or 14 ft. **Retail Price, 14c. lb.**

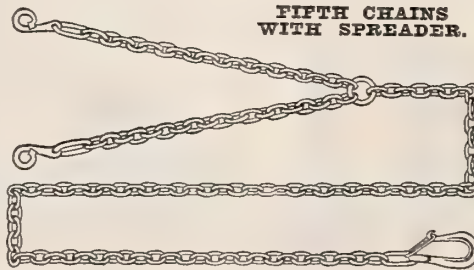
BREAST CHAINS.



Single Slack.

27 in. 5-16 to $\frac{1}{4}$ Taper Slack.....\$1.00
27 in. $\frac{3}{8}$ to 5-16 Taper Slack..... 1.25
28 in. No. 10-2—Single Slack, pair..... 1.00
28 in. Double Slack, pair..... 1.10

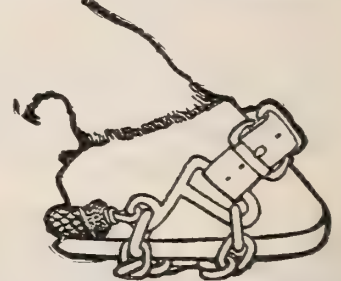
FIFTH CHAINS WITH SPREADER.



No. 67—**FIFTH CHAIN**—Round hook, ring and swivel; black; made with spreader 8 $\frac{1}{2}$ ft. long to spreader 13-32. **Our Special Price, \$7.00.**

KINNEL EMERGENCY CHAIN OVERSHOE FOR HORSES

**NO EXCUSE FOR HORSES
SLIPPING**



Put the Kinnel Emergency Shoe on Your Horses. Prevents suffering and loss. Just the thing to prevent horses from breaking legs, causing innumerable falls, delay, suffering and financial loss on account of icy, snowy weather.

Special Chain Shoes for Mules; small, medium and large. The average 1400-lb. horse requires a No. 5. The average 1600-lb. horse requires a No. 6.

Price, per Set of 4, \$6.00. Pair, \$3.00

CURRY COMB

ALL-STEEL CLOSED BACK

No. 800.



No. 800—All Steel closed back, laquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Our Special Price, 30c. ea.



No. 167—All steel, closed back, 6 bars.

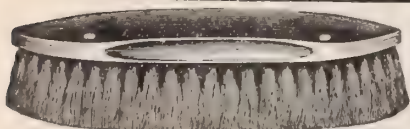
Our Special Price, 25c. each.

No. 167

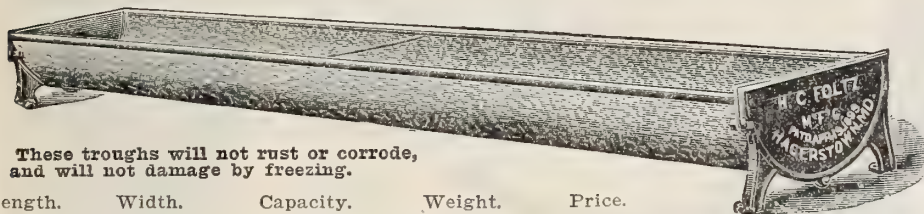
No. 083—Open Back Curry Comb.
Our Special Price, 20c. each.

DANDY BRUSHES

No. 985—Oval Brush**Our Special Price, \$0.60 each**
No. 940—Palmetto Dandy50 each
No. 950—Palmetto Dandy45 each
Leather Back Bristle Army Brush..... 1.00 each



GALVANIZED STEEL STOCK TROUGHS



These troughs will not rust or corrode, and will not damage by freezing.

Length.	Width.	Capacity.	Weight.	Price.
3 ft.	16 in.	18 gals.	54 lbs.	\$7.60
4 ft.	16 in.	24 gals.	61 lbs.	8.60
6 ft.	16 in.	36 gals.	75 lbs.	10.25
8 ft.	16 in.	48 gals.	90 lbs.	12.00
10 ft.	16 in.	60 gals.	105 lbs.	14.40
12 ft.	16 in.	72 gals.	120 lbs.	17.00
4 ft.	20 in.	40 gals.	100 lbs.	10.75
6 ft.	20 in.	60 gals.	125 lbs.	13.20
8 ft.	20 in.	80 gals.	150 lbs.	15.20
10 ft.	20 in.	100 gals.	170 lbs.	18.30
12 ft.	20 in.	120 gals.	195 lbs.	20.25
6 ft.	24 in.	84 gals.	155 lbs.	16.30
8 ft.	24 in.	112 gals.	185 lbs.	19.25
10 ft.	24 in.	140 gals.	215 lbs.	23.50
12 ft.	24 in.	168 gals.	240 lbs.	27.00



ROTO SALTS

SALT CAKES. Each, 25c.
ROTO SALT HOLDERS,
50c.



HORSE MUZZLES

Well made and of good stout wire.
No. 13—Plain. List Price, dozen, \$1.20. Our Special Price, each 10c.
No. 16—Braced. List Price, dozen, \$2.00. Our Special Price, each, 15c.
No. 14—Braced. List Price, dozen, \$2.50. Our Special Price, each, 20c.

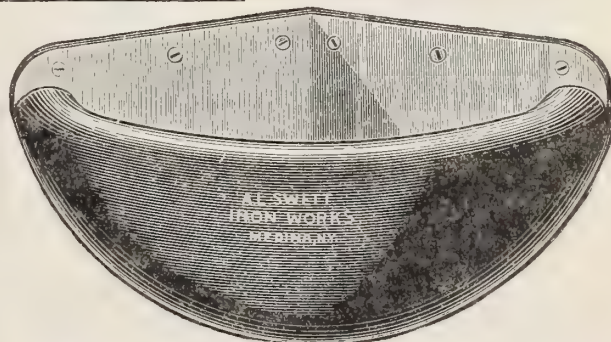


Galvanized Hog and Sheep Troughs

(With Guards)

Length	Width	Capacity	Weight	Price
3 ft.	10 in.	6 gals.	30 lbs.	\$4.50
4 ft.	10 in.	8 gals.	35 lbs.	5.35
5 ft.	10 in.	10 gals.	40 lbs.	5.75
6 ft.	10 in.	12 gals.	45 lbs.	6.40
8 ft.	10 in.	16 gals.	55 lbs.	7.60
10 ft.	10 in.	20 gals.	65 lbs.	8.80

Cast Iron Corner Mangers



Heavy Cast-Iron Hog Troughs.

Iron Hog Troughs

No danger of them bursting in winter. Twelve inches wide at the top, 2 inches wide at the bottom and 7 inches deep. Made in lengths from 2 feet up to 12 feet, every 12 inches.

Weight, 19 pounds to the foot. Price, \$1.00 per foot.

No. H15 Hudson Automatic Hog Waterer



Extensively used for Hogs and all small stock.

Valve consists of a standard sized rubber fuller ball which closes close against a brass seat. Simple adjustment; nothing to get out of order.

The Hudson Waterer is made so it will attach to a ¾-inch pipe

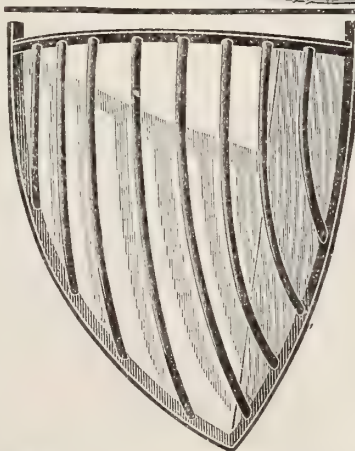
line—water tank or barrel.

When used with pipe line must be furnished with special coupling.

Hogs must have an abundance of fesh, clean water at all times. A Hudson Hog Waterer will pay for itself by producing healthier, faster growing hogs and consequently bring more money to the owner.

Hudson Hog Waterers are reliable and practical because of the positive working valves and bowl patterns.

No. H15. Hudson Hog Waterer. Wt. each 12 lbs.\$2.75



With Roll Front Food Guard.

No. 6—17 in. long, 17 in. wide, 10 in. deep.
Price,\$3.75
No. 7½—20 in. long, 20 in. wide, 10 in. deep.
Price.....\$6.75

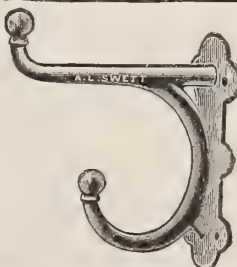
Wrought Iron Hay Rack

No. 12—Frame, 1 inch channel, 8 uprights, ½ inch round bar, exceptionally strong and heavy.

Price\$4.00

No. 13—Frame, 1 inch channel, 6 uprights, ½ inch round bars. Price.....\$3.50

Heavy Harness Hooks



No. 1—Upper Hook projects 12 in., lower hook projects 5 in. Approximate weight 4 lbs. Price.....\$.90

No. 2—Extra Heavy, Upper Hook projects 12 in., lower hook projects 7 in. Approximate weight 8½ lbs.

Price\$1.70



THORNHILL JUNIOR FARM WAGONS

THE BEST EVER MADE

This is not a fragile toy, but is strong and substantially built, well ironed and handsomely finished—with ordinary care will last a boy many years.

Wheels are 14 inches and 18 inches high, with heavy tires, bed is 16x36 inches, strongly made. These wagons are made of the very best materials and they are first class.

Price..... \$12.50

THE GRITCO HOG OILER

SIMPLE IN CONSTRUCTION.

You may see by the picture that the Gritco Hog Oiling Machine is very simple and that there is no possible chance for waste of oil nor is there any chance for dirt to interfere with the working princi-

ples of this machine. You will notice there are three rubbing bars, making it possible for two or three hogs to rub on the Oiler at the same time.

As soon as the hog starts to rub on the bar this will open the feed allowing the oil to run down the bar placing oil on the infected part. The bars are held firmly in place by guiders and the opening which gauges the feed is governed by a spring, which prevents all possible chance for waste of oil.

There is nothing to break or get out of order. This machine will last a life time.

DON'T TAKE CHANCES.

For years the successful hog raisers have been looking for an Oiler that would work perfectly. There have been a large number of Hog Oilers placed on the market, each and every one has its merits, while at the same time there are with a great many of them a host of disadvantages which the manufacturers cannot avoid.

In considering the advisability purchasing the **GRITCO HOG OILER** we want you to feel perfectly satisfied before placing your order that you are giving your patronage with the right concern, and that you may confidently expect in return the best of service and that you are buying an article that is thoroughly reliable, desire any further information we respectfully solicit your inquiry for such and your request shall have our immediate attention.

PRICE OF HOG OILER COMPLETE.....\$10.00

SPECIAL OIL FOR HOG OILERS

5-Gallon Cans.....\$4.50 10-Gallon Cans.....\$8.00
Barrels, 50 gallons, per gallon.....50 Cents.



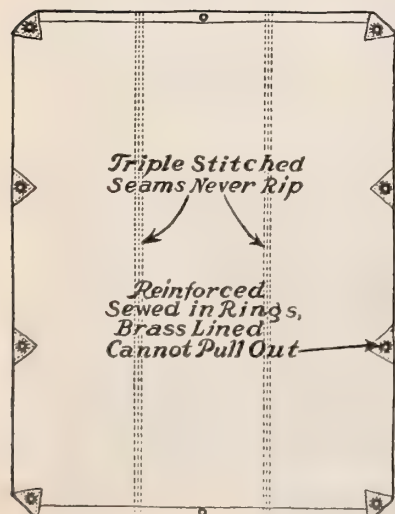
Made of Cast Iron—
Weighs 45 Pounds.

HET-SON WATERPROOFED CANVAS COVERS

Demand These Strong Features

HET-SON Waterproofed Canvas Covers are not ordinary canvas covers. Each seam is strongly sewed with three rows of stitching instead of the ordinary double sewed seam. The eyelets for tie ropes are rings reinforced and sewed in and then lined with a brass ferrule and will not pull nor chafe out as the ordinary eyelets in general use so often do.

HET-SON waterproofed tarpaulin materials are of the highest quality in each of the four grades furnished and are supplied in either green, brown or khaki color. When once you see a HET-SON tarpaulin you will never be satisfied with less.



Use HET-SON COVERS for

Truck Covers	Cement Covers	Storage Covers	Concrete Covers	Auto Covers
		Merchandise and Materials	Wind Breakers	
		Ice Covers		
		Construction and Building		
		Implement Covers		
Binder Covers	Thresher Covers		Stack Covers	Tent Floors
Machinery Covers				

STANDARD STOCK SIZES

6' x 8'	12' x 18'
8' x 10'	14' x 16'
10' x 12'	16' x 18'
10' x 16'	16' x 20'
12' x 14'	20' x 20'
12' x 16'	

Other Sizes Made On Order Promptly

WRITE FOR PRICES

SEEDS

Asparagus Roots	3
Barley	43
Broom Corn	45
Buckwheat	43
Caladiums	55
Canada Field Peas	45
Canna Roots	58
Cannas	58
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Dahlias	60
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FERTILIZERS FOR THE FARM LAWN and GARDEN

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some land being deficient in Potash, Phosphoric Acid or some other ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Ammoniated Alkaline Plant Food

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops; stands the hot, dry weather particularly well.

Price Per Bag, \$2.50

5-pound Packages	\$.25
10-pound Packages .....	.40
50-pound Packages	1.25
100-pound Packages	2.00
167-pound Bag	2.50

Write for Special Prices in Ton Lots

Ammoniated Butchers' Bone Phosphate

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes. A good article at a low price.

Price Per Bag, \$2.75

Write for Special Prices in Ton Lots

Animal Bone Phosphate

Made from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass. It contains the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price Per Bag, \$3.50

Write for Special Prices in Ton Lots

Dried Blood

Dried Blood is a quick-acting fertilizer. Running high in Nitrogen or Ammonia. Fine for greenhouse, potted plants and garden use.

Price Per 5-Lb. Package	\$.60
Price Per 10-Lb. Package	1.00
Price Per 25-Lb. Package	1.75
Price Per 50-Lb. Package	3.00
Price Per 100-Lb. Package	5.00

Hydrated Lime For Improving the Soil

Hydrated Lime is a soil sweetener and is free from injurious qualities. It is cheaper than any other lime product which can claim to be at all competitive, and is more easily handled. There has been an enormous increase in its use in recent years, keeping pace with the growing of clover and alfalfa.

Hydrated Lime, while an indirect plant food, is as essential to the maximum production of some crops as is direct plant food.

In addition to producing chemical changes, Hydrated Lime also has mechanical effects, making clay soils more friable and more open to both air and water, and so less susceptible to extreme dry and wet weather. In sandy soil the action is practically reverse; Lime in such soil has a cementing tendency and helps the soil to retain moisture.

We recommend the free use of Hydrated Lime on lawns.

Per Bag of 50 Pounds, 75c

Write for prices in larger lots. Special incinerations offered for car lots.

Special Potato Fertilizer

Made especially for potatoes, running high in Potash and containing Ammonia and Available Phosphoric Acid in proper proportion for good results on this crop.

Price Per Bag, \$2.90

Write for Special Prices in Ton Lots

Tomato Grower Fertilizer

167-Lb. Bags, \$3.75

Write for Special Prices in Ton Lots

Special Truck Mixture

167-Lb. Bags, \$4.50

Write for Special Prices in Ton Lots

Land Plaster

In Bags, 200 Lbs. Each,
Per Bag, \$2.50

Fine-Ground Fish Ground Tankage High-Grade Acid Phosphate

Kainit, Muriate of Potash
Nitrate Soda
Sulphate of Ammonia
Agricultural Lime
Write for Prices

PULVERIZED SHEEP MANURE

Has No Rival

Remember that Pulverized Sheep Manure is aged for several years and will not burn your plants, no matter in what quantities you use it—but as it is highly concentrated, a little goes a long way.

Used for top dressing, mulching, etc.

Valuable in a run-down city garden, as it adds humus and vegetable matter which are essential for all vegetation.

It may also be used at the rate of 20 to 50 pounds to every 1000 square feet in a dry form, or 500 to 1000 pounds per acre.

Makes the richest and safest liquid manure, using 1 pound to 5 gallons of water once a week.

For Greenhouse Plants mix one part to about 10 parts of soil.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$2.75.

Special price in one-half ton, tons and carload.

Soft Ground Bone

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

PRICES:

5-pound Packages	\$.30
10-pound Packages .....	.50
50-pound Packages	1.75
100-pound Bag	3.15
167-pound Bag	5.00

Write for Special Prices in Ton Lots

Raw Bone Meal (Pure Bone)

Splendid article for building up worn-out soil, lawns, etc.

5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$3.25; 167 lbs., \$5.25.

NITRATE OF SODA

5-pound Packages	\$.40
10-pound Packages .....	.75



For Better Flowers —and more of them

use good seed, bulbs and plants, and feed them Vigoro, the complete, balanced diet. Feed your lawn, vegetables, shrubs, and trees, too.

Clean, odorless, easy to use, and economical.

VIGORO

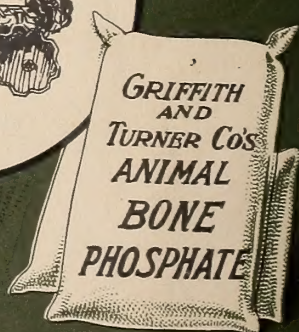
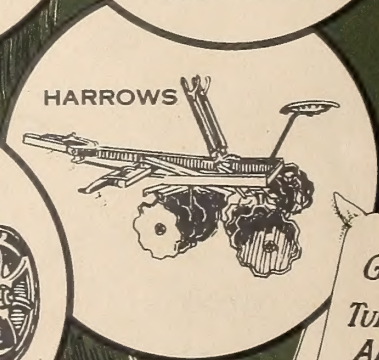
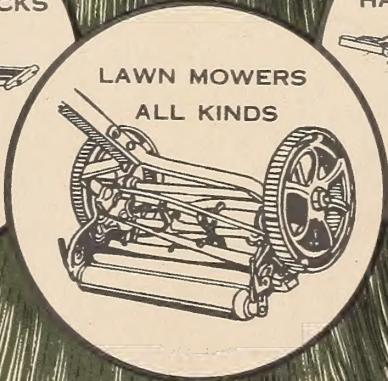
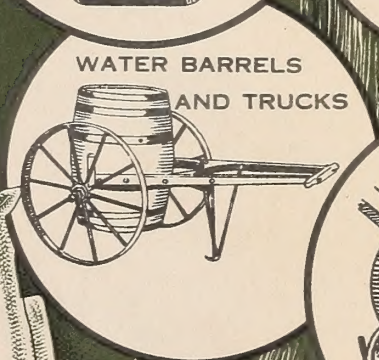
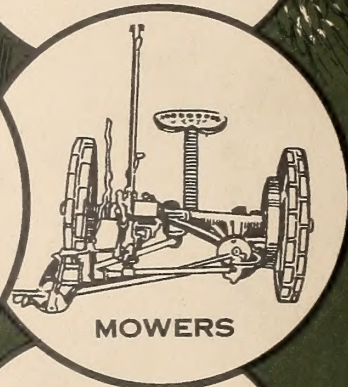
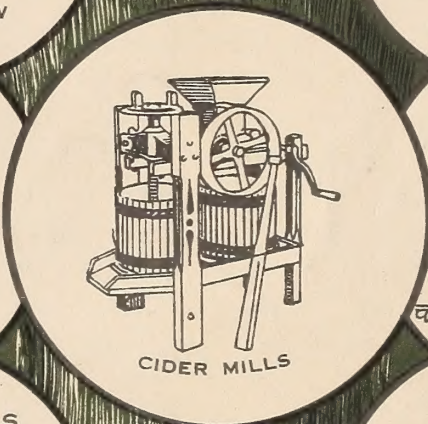
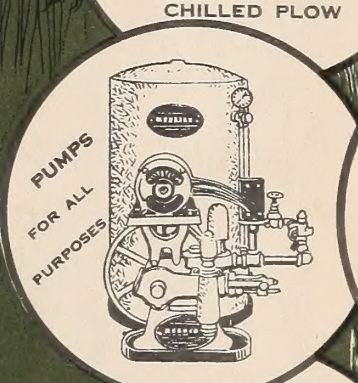
Complete plant food
See Page 47

100-lb. Bag	\$5.00
50-lb. Bag	3.00
25-lb. Bag	1.75
5-lb. Package .....	.50
12-oz. Package .....	.10

FOR LAWNS, GARDENS, FLOWERS,
AND TREES

GRIFFITH & TURNER CO.

FARM AND GARDEN SUPPLIES



LEMON OIL CO'S. INSECTICIDE

IS RECOMMENDED AND IN USE BY THE LEADING SEEDSMEN AND FLORISTS.